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# SAFETY DATA SHEET

**YaraMila Winner**

## Section 1. Identification

Product identifier : YaraMila Winner  
Product type : Solid (prills)  
Product code : PG518P

### Uses

Area of application : Professional applications  
Material uses : Fertilizers.

### Supplier

Supplier's details : Yara Fert Zambia Ltd

### Address

Street : Mwembeshi Extension Road  
Postal code : 1000  
City : LUSAKA  
Country : Zambia

### P.O. Box Address

P.O. Box : 25986  
Postal code : 1000  
City : LUSAKA  
Country : Zambia

Telephone number : +260 960 283 590  
e-mail address of person : zambia@yara.com  
responsible for this SDS  
Emergency telephone number : +27 21 300 2732 (24/7)

National advisory body/Poison : Not available.  
Center

## Section 2. Hazard identification

Classification of the substance or mixture. : ACUTE TOXICITY (oral) - Category 5  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

### GHS label elements

Hazard pictograms

:



Signal word

:

Warning

Hazard statements

:

H303  
H319May be harmful if swallowed.  
Causes serious eye irritation.**Precautionary statements**

Prevention

:

P280  
P264-aWear protective gloves and eye protection.  
Wash hands thoroughly after handling.

Response

:

P305  
P351IF IN EYES:  
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-a

Get medical attention.

Other hazards which do not  
result in classification

:

Product forms slippery surface when combined with water.

**Section 3. Composition/information on ingredients**

Substance/mixture

:

Mixture

Ingredient name	CAS number	%
ammonium nitrate	6484-52-2	>= 20- <25
potassium nitrate	7757-79-1	>= 15- <20
potassium chloride	7447-40-7	>= 10- <12,5
ammonium chloride	12125-02-9	>= 7- <10
ammonium dihydrogenorthophosphate	7722-76-1	>= 5- <7
ammonium sulphate	7783-20-2	>= 3- <5
calcium hydrogenphosphate	7757-93-9	>= 3- <5
calcium fluoride	7789-75-5	>= 1- <2
disodium tetraborate pentahydrate	12179-04-3	>= 0,1- <0,2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier**

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and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

**Remark** : This product contains Boron (see section 7 and 11).  
The content is below the level required for classification of the product as toxic to reproduction.

## Section 4. First aid measures

### Description of necessary 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. Get medical attention if you feel unwell. 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. Get medical attention if you feel unwell.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : May be harmful if swallowed. Irritating to mouth, throat and stomach.

#### 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** : Adverse symptoms may include the following: stomach pains

### Indication of immediate medical attention and special treatment needed, if necessary

- 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.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### 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.
- Specific hazards arising from the chemical** : The product itself is not combustible but it can support combustion, even in absence of air. On heating it melts and further heating can cause decomposition, releasing toxic fumes containing nitrogen oxides and ammonia.
- Hazardous thermal decomposition 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.
- 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.
- Remark** : Non-explosive.

## Section 6. Accidental release measures

### 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".

- 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).

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

- Small spill** : Move containers from spill area. Avoid dust generation. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. 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. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## **Section 7. Handling and storage**

### **Precautions for safe handling**

Not for human or animal consumption.

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). As a precaution, keep exposure as low as possible for pregnant women, children and workers in reproductive age. Avoid dust generation. Do not breathe dust. 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.
- 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.

**Specific recommendations to end users**

: Do not generate and inhale liquid fertilizer aerosols.

In addition to overalls, gloves and eye protection, use of efficient respiratory protection (P2/P3 respirators with a tight face seal) during discharge of fertilizer bags and maintenance of equipment is recommended to minimize inhalation exposure and to ensure safe-use during this activity (see section 8).

Risk assessments show safe use during normal spreading of fertilizers containing below 5% of boron by tractor (liquid or granular) and backpack (liquid).

## Section 8. Exposure controls/personal protection

### Control parameters

**Occupational exposure limits**

: None.

**Appropriate engineering controls**

: If user operations generate dust, fumes, gas, vapor 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.

**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.

### 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,

### 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**

- : Use respiratory protection with more than 94% efficiency (P2, P3 or N95) and a tight face seal, when risk of exposure to dust.

#### **Personal protective equipment (Pictograms)**



## **Section 9. Physical and chemical properties and safety characteristics**

### Appearance

- Physical state** : Solid [prills]
- Color** : Green.,
- Odor** : Odorless.
- Odor threshold** : Not determined.
- pH** : 4,5 [Conc.: 100 g/l]

- Melting point/freezing point** : 160 °C

- Boiling/condensation point** : Not determined.
- Sublimation temperature** : Not determined.
- Flash point** : Not determined.
- Evaporation rate** : Not determined.
- Flammability** : Non-flammable.

- Lower and upper explosion limit/flammability limit** : **Lower:** Not determined.  
**Upper:** Not determined.

<b>Vapor pressure</b>	:	Not determined.
<b>Relative density</b>	:	Not determined.
<b>Solubility</b>	:	Soluble in the following materials: cold water
<b>Partition coefficient: n-octanol/water</b>	:	Not determined.
<b>Auto-ignition temperature</b>	:	Not determined.
<b>Decomposition temperature</b>	:	Not determined.
<b>Viscosity</b>	:	<b>Dynamic:</b> Not determined. <b>Kinematic:</b> Not determined.
<b>Explosive properties</b>	:	Non-explosive.
<b>Oxidizing properties</b>	:	None

## Section 10. Stability and reactivity

<b>Reactivity</b>	:	No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	:	The product is stable.
<b>Possibility of hazardous reactions</b>	:	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	:	Avoid contamination by any source including metals, dust and organic materials.
<b>Incompatible materials</b>	:	alkalis combustible materials, reducing materials, organic materials, Acids
<b>Hazardous decomposition products</b>	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Method	Species	Result	Exposure	References
disodium tetraborate pentahydrate					
	LD50 Oral	Rat	2.000 - 5.000 mg/kg	Not applicable.	IUCLID
	LD50 Dermal	Rabbit	> 5.000 mg/kg	Not applicable.	IUCLID



calcium fluoride					
	LD50 Oral	Rat	> 2.000 mg/kg	Not applicable.	ICULID 5
	OECD 403 LC50 Inhalation	Rat	5,07 mg/l	4 h	ICULID 5
ammonium sulphate					
	OECD 401 LD50 Oral	Rat	4.250 mg/kg	Not applicable.	CSR
	LC50 Inhalation	Rat	1 mg/l	8 h	CSR
	OECD 434 LD50 Dermal	Rat	> 5.000 mg/kg	Not applicable.	CSR
calcium hydrogenphosphate					
	OECD 401 LD50 Oral	Rat	3.986 mg/kg	Not applicable.	IUCLID
	OECD 402 LD50 Dermal	Rabbit	> 5.000 mg/kg	Not applicable.	
ammonium dihydrogenorthophosphate					
	OECD 425 LD50 Oral	Rat	2.000 - 5.000 mg/kg	Not applicable.	ECHA
	OECD 403 LC50 Inhalation	Rat	> 5 mg/l	4 h	ECHA
	OECD 402 LD50 Dermal	Rat	> 5.000 mg/kg	Not applicable.	ECHA
ammonium chloride					
	LD50 Oral	Rat	1.410 mg/kg	Not applicable.	CSR
	LD50 Dermal	Rat	> 5.000 mg/kg	Not applicable.	IUCLID
potassium chloride					
	LD50 Oral	Rat	3.020 mg/kg	Not applicable.	IUCLID 5
potassium nitrate					
	LD50 Oral	Rat	2.000 - 5.000 mg/kg	Not applicable.	CSR
	LD50 Dermal	Rat	> 5.000 mg/kg	Not applicable.	CSR
ammonium nitrate					
	OECD 401 LD50 Oral	Rat	2.950 mg/kg	Not applicable.	CSR
	OECD 402 LD50 Dermal	Rat	> 5.000 mg/kg	Not applicable.	CSR

**Conclusion/Summary** : May be harmful if swallowed.

**Irritation/Corrosion**

Product/ingredient name	Method	Species	Result	Exposure	References
ammonium chloride					
	Eyes	Rabbit	Irritant		CSR
potassium nitrate					
	OECD 404 Skin	Rabbit	Non-irritating.		IUCLID 5
ammonium nitrate					
	OECD 405 Eyes	Rabbit	Irritant		CSR

**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	References
ammonium nitrate				
	OECD 429 Skin	Mouse	Not sensitizing	

**Conclusion/Summary**

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

**Mutagenicity**

Product/ingredient name	Method	Test detail	Result	References
ammonium nitrate				
	OECD 473	Mammalian Toxicity - Genotoxicity - In vitro Mammalian Chromosome Aberration Test or Mammalian Bone Marrow Chromosomal Abberation Test or Mammalian	Negative	CSR

		Erythrocyte Micronucleus Test In vitro		
	OECD 471	Bacteria In vitro	Negative	IUCLID

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

#### **Carcinogenicity**

Product/ingredient name	Method	Species	Result	Exposure	References
ammonium sulphate					
	Oral	Rat	Negative NOAEL 284 mg/kg bw/day	Not applicable.	IUCLID

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

#### **Reproductive toxicity**

Product/ingredient name	Method	Species	Result	Exposure	References
ammonium sulphate					
	OECD 422 Oral	Rat	Fertility effects- Negative Developmental- Negative 1500 mg/kg bw/day	Not applicable.	IUCLID 5
calcium hydrogenphosphate					
	Oral	Rat	Developmental- Negative NOAEL > 410 mg/kg bw/day	10 days	IUCLID
	Oral	Rat	Fertility effects- Negative NOAEL > 500 mg/kg bw/day	42 days	IUCLID
ammonium dihydrogenorthophosphate					
	Oral	Rat	Fertility effects- Negative Developmental- Negative	Not applicable.	IUCLID 5

			NOAEL 1500 mg/kg bw/day		
ammonium chloride					
	Oral	Rat	Fertility effects- Negative Developmental- Negative 1500 mg/kg bw/day	Not applicable.	IUCLID 5
ammonium nitrate					
	OECD 422 Oral	Rat	Fertility effects- Negative Developmental- Negative NOAEL > 1500 mg/kg bw/day	28 days	CSR

**Conclusion/Summary** : Contains boron which may harm fertility, based on animal data. Contains boron which may harm the unborn child, based on animal data.

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

No known significant effects or critical hazards.

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

No known significant effects or critical hazards.

**Aspiration hazard**

No known significant effects or critical hazards.

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

**Potential acute health effects**

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : May be harmful if swallowed. Irritating to mouth, throat and stomach.

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

- Eye contact** : Adverse symptoms may include the following: pain or irritation, watering, redness
- Inhalation** : No specific data.

**Skin contact** : No specific data.  
**Ingestion** : Adverse symptoms may include the following: stomach pains

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

**Short term exposure**

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

**Long term exposure**

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

**Potential chronic health effects**

Product/ingredient name	Method	Species	Result	Exposure	References
ammonium sulphate					
	Chronic NOAEL Oral	Rat	256 mg/kg	365 days	IUCLID 5
	Sub-acute NOEC Inhalation	Rat	300 mg/m <sup>3</sup>	14 days 8 hours per day	IUCLID
calcium hydrogenphosphate					
	OECD 422 Sub-chronic NOAEL Oral	Rat	250 mg/kg	42 days	IUCLID
ammonium dihydrogenorthophosphate					
	OECD 422 Sub-acute NOAEL Oral	Rat	250 mg/kg	42 days	IUCLID 5
ammonium chloride					
	Sub-chronic NOAEL Oral	Rat	1.695 mg/kg	13 weeks 7 days per week	CSR
ammonium nitrate					
	OECD 422 Chronic NOAEL Oral	Rat	256 mg/kg	28 days	CSR
	OECD 412 Sub-acute NOEC Inhalation	Rat	> 185 mg/m <sup>3</sup>	2 weeks 5 hours per day	CSR

- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Fertility effects** : Contains boron which may harm fertility, based on animal data.
- Developmental effects** : Contains boron which may harm the unborn child, based on animal data.
- Effects on or via lactation** : No known significant effects or critical hazards.
- Other effects** : No known significant effects or critical hazards.

**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** : Adverse symptoms may include the following: stomach pains

**Numerical measures of toxicity****Acute toxicity estimates**

Route	ATE value
Oral	3.473,2 mg/kg

**Section 12. Ecological information****Toxicity**

Product/ingredient name	Method	Species	Result	Exposure	References
disodium tetraborate pentahydrate					
	Acute LC50 Fresh water	Fish	> 100 mg/l	96 h	IUCLID
	Acute EC50 Fresh water	Daphnia	> 100 mg/l	48 h	IUCLID
	Acute EC50 Fresh water	Algae	> 100 mg/l	72 h	IUCLID
calcium fluoride					
	Acute EC50 Fresh water	Water flea	26 mg/l	96 h	IUCLID 5
	Acute EC50 Marine water	Water flea	10,5 mg/l	96 h	IUCLID 5
	Acute EC50 Fresh water	Algae	43 mg/l	96 h	IUCLID 5
	Acute EC50	Algae	81 mg/l	96 h	IUCLID 5

	Marine water				
ammonium sulphate					
	Acute EC50 Fresh water	Daphnia	169 mg/l	48 h	IUCLID
	Acute EC50 Fresh water	Algae	1.605 mg/l	96 h	IUCLID
calcium hydrogenphosphate					
	OECD 203 Acute LC50 Fresh water	Fish	> 100 mg/l	96 h	IUCLID
	OECD 202 Acute EC50 Fresh water	Daphnia	> 100 mg/l	48 h	IUCLID
	OECD 201 Acute EC50 Fresh water	Algae	> 100 mg/l	72 h	IUCLID
ammonium dihydrogenorthophosphate					
	OECD 203 Acute LC50 Fresh water	Fish	85,9 mg/l	96 h	IUCLID
	Acute EC50 Fresh water	Daphnia	1.790 mg/l	48 h	IUCLID
	OECD 201 Acute LC50 Fresh water	Algae	> 100 mg/l	72 h	IUCLID
	OECD 201 Chronic NOEC Fresh water	Algae	100 mg/l	72 h	IUCLID
ammonium chloride					
	OECD 202 Acute EC50 Fresh water	Daphnia	136,6 mg/l	48 h	CSR
	Acute EC50 Fresh water	Algae	1.300 mg/l	5 d	CSR
potassium chloride					
	Acute LC50	Fish	2.300 mg/l	48 h	IUCLID 5
	Acute EC50	Water flea	825 mg/l	48 h	IUCLID 5
	Acute EC50	Algae	2.500 mg/l	72 h	IUCLID 5
potassium nitrate					
	OECD 203 Acute LC50 Fresh water	Fish	> 100 mg/l	96 h	CSR
	Acute EC50 Fresh water	Daphnia	490 mg/l	48 h	CSR
	Acute EC50	Algae	> 1.700 mg/l	240 h	CSR

	Fresh water				
ammonium nitrate					
	Acute LC50 Fresh water	Fish	447 mg/l	48 h	CSR
	Acute EC50 Fresh water	Daphnia	490 mg/l	48 h	CSR
	Acute EC50 Salt water	Algae	1.700 mg/l	10 d	CSR

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

#### **Persistence and degradability**

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

#### **Bioaccumulative potential**

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

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

#### **Mobility in soil**

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

**Mobility** : Not available.

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

## **Section 13. Disposal considerations**

#### **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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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

### Regulation: UN Class

14.1 UN number	Not regulated.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	No.
Additional information <u>Environmental hazards</u> : No.	

### Regulation: IMDG

14.1 UN number	Not regulated.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	No.
Additional information <u>Marine pollutant</u> : No.	

### Regulation: IATA

14.1 UN number	Not regulated.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	No.
Additional information <u>Marine pollutant</u> : No.	

**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.

**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.

### **IMSBC**

**Bulk cargo shipping name** : AMMONIUM NITRATE BASED FERTILIZER (non-hazardous)  
**Class** : Not applicable.  
**Group** : C  
**Marpol V** : Non-HME

**Transport in bulk according to Annex II of MARPOL and the IBC Code** : Not applicable.

## **Section 15. Regulatory information**

### **Inventory list**

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

**EC INVENTORY (EINECS/ELINCS):** All components are listed or exempted.

## **Section 16. Other information**

**Key to abbreviations** :

- ADNR/ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
- ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- bw = Body weight
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
- SUSMP - Standard Uniform Schedule of Medicine and Poisons
- SGG = Segregation Group
- UN = United Nations

**Procedure used to derive the classification**

Classification	Justification
ACUTE TOXICITY (oral) - Category 5	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method

**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.

**History**

**Date of printing** : 27.07.2020  
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**Date of previous issue** : 05.07.2019  
**Revision comments** : The following sections contain new and updated information: 2, 8, 11.

**Version** : 5.0  
**Prepared by** : Yara Chemical Compliance (YCC).

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

**Notice to reader**

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