Conforms: GHS (rev 9) (2021) HCA 44348:2021 - South Africa

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: 15.11.2023 : 2.0



SAFETY DATA SHEET

YaraRega Aquaflex 18

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

Product identifier Product type Product code <u>Uses</u>	:	YaraRega Aquaflex 18 Solid (granulates) PKEXNG
Area of application Material uses	:	Professional applications Fertilizers.
<u>Supplier</u>		
Supplier's details	1	Yara Africa Fertilizers (Pty) Ltd
Address		
Street	1	The Pivot at Montecasino, 2nd floor, Block C No 1 Montecasino Boulevard, Fourways
Postal code	:	2191
City	:	Johannesburg
Country	1	South Africa
P.O. Box Address		
P.O. Box	1	PBX10/1077
Postal code	1	2086
City	1	Johannesburg
Country	1	South Africa
Telephone number	1	+27(0)11011 9230
Fax no.	1	+27(0)11388 4459
e-mail address of person responsible for this SDS	1	infosa@yara.co.za
Emergency telephone number	:	+27 21 300 2732 (24/7)
National advisory body/Poison (Cent	er
Name	:	Poison Information Centre
Telephone number	:	+27 21 938-6084 / +27 21 931-6131

Date of issue : 15.11.2023

SECTION 2: Hazards identification

Classification of the substance or mixture.	:	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION - Category 1B		
<u>GHS label elements</u> Hazard pictograms	:			
Signal word	:	Danger		
Hazard statements	:	H319 Causes serious eye irritation.H360 May damage fertility or the unborn child.		
Precautionary statements				
Prevention Response	:	 P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/clothing and eye/face protection. P264+P Wash hands thoroughly after handling. Do not touch eyes. P308 IF exposed or concerned: 		
		 P313 Get medical attention. 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. 		
Storage Disposal	:	P405 Store locked up.P501 Dispose of contents and container in accordance with all local, regional, national and international regulations.		
Other hazards which do not result in classification Additional information	:	None known. Product forms slippery surface when combined with water.		

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

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Date of issue : 15.11.2023
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Ingredient name	%	CAS number
ammonium nitrate	>= 45 - <= 50	6484-52-2
potassium nitrate	>= 1 - <= 2	7757-79-1
disodium tetraborate pentahydrate	>= 0,3 - < 1	12179-04-3
zinc sulphate (monohydrate)	>= 0.2 - <= 0.25	7446-19-7

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 and hence require reporting in this section.

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

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Remark

This product contains Boron (see section 7 and 11).

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	:	Rinse with plenty of running water. Check for and remove any
Inhalation Skin contact	:	contact lenses. If irritation persists, get medical attention. 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. 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	s, ac	ute and delayed
Potential acute health effects		
Eye contact Inhalation	:	Causes serious eye irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact Ingestion	:	No known significant effects or critical hazards. Irritating to mouth, throat and stomach.
Over-exposure signs/symptoms	<u>s</u>	
Eye contact	:	Adverse symptoms may include the following: pain or irritation, watering, redness
Inhalation	:	No specific data.
Skin contact	1	No specific data.
Ingestion	÷.,	No specific data.
Indication of immediate medical	atter	ntion 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.
Date of issue : 15.11.2023		Page:3/14

See toxicological information (Section 11)

SECTION 5: Firefighting measures

Extinguishing media Suitable extinguishing media ŝ. Use flooding quantities of water for extinction. Unsuitable extinguishing Do NOT use chemical extinguisher or foam or attempt to 2 smother the fire with steam or sand. media Specific hazards arising from The product itself is not combustible but it can support the chemical 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 ŝ, Decomposition products may include the following materials: decomposition products nitrogen oxides, sulfur oxides, phosphorus oxides, 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 Promptly isolate the scene by removing all persons from the ÷. fire-fighters 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 Fire-fighters should wear appropriate protective equipment 2 for fire-fighters and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Remark Non-explosive. ŝ.

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 conta	inm	ent and cleaning up
Small spill	:	Move containers from spill area. Avoid dust generation. Do not dry sweep. 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.
Date of issue : 15.11.2023		Page:4/14

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 Advice on general occupational hygiene	:	Put on appropriate personal protective equipment (see Section 8). Do not handle until all safety precautions have been read and understood. 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 get in eyes or on skin or clothing. Do not ingest. 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. 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.Store locked up.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).
Date of issue : 15.11.2023		Page:5/14

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

pentahydrate (borates, tetra, sodium salts)TWA 4 mg/m3 STEL 12 mg/m3Appropriate engineering controlsIf 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 controlsIf user operations 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 purpose: should be present. Wash hands, forearms and face thorough 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 Hand protection:Chemical-resistant, impervious gloves complying with an		Exposure limits
controlsuse 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 purposed should be present. Wash hands, forearms and face thorough 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 t avoid exposure to liquid splashes, mists, gases or dusts. Recommended: Tightly-fitting goggles, Europe:, CEN: EN166,Skin 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 is	pentahydrate (borates, tetra,	•
controlsbe 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:Eye/face protection:Eye/face protection:Skin protection:Skin 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		use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne
Hygiene measures: A washing facility or water for eye and skin cleaning purposes should be present. Wash hands, forearms and face thorough 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 t avoid exposure to liquid splashes, mists, gases or dusts. Recommended: Tightly-fitting goggles, Europe:, CEN: EN166,Skin 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		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
Should be present. Wash hands, forearms and face thorough 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 t avoid exposure to liquid splashes, mists, gases or dusts. Recommended: Tightly-fitting goggles, Europe:, CEN: EN166,Skin 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	Individual protection measures	
Eye/face protection:Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary t avoid exposure to liquid splashes, mists, gases or dusts. Recommended: Tightly-fitting goggles, Europe:, CEN: EN166,Skin 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	Hygiene measures	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
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	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:
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	Skin protection	
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.	Hand protection	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	Body protection	: Personal protective equipment for the body should be selected
Other skin protectionbased on the task being performed and the risks involved.Characteristic interval in the skin protectionAppropriate footwear and any additional skin protectionmeasures should be selected based on the task beingperformed and the risks involved and should be approved byspecialist 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
Date of issue : 15.11.2023 Page:6/1	Date of issue : 15.11.2023	Page:6/14

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

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

<u>Appearance</u> Physical state Color Odor pH		Solid [granulates] Blue., Odorless. 4,5 - 6,5 [Conc. (% w/w): 100 g/l]
Melting point/freezing point	:	145 - 185 °C (293 - 365 °F)
Boiling point, initial boiling point, and boiling range	:	Not applicable.
Flash point	:	Not applicable.
Flammability Lower and upper explosion limit/flammability limit	:	Non-flammable. Lower: Not applicable. Upper: Not applicable.
Vapor pressure Relative vapor density	:	Not applicable. Not applicable.
Bulk density	:	950 - 1.250 kg/m3
Solubility in water	:	> 75 g/l
Partition coefficient: n- octanol/water	:	Not applicable.
Auto-ignition temperature Decomposition temperature	:	Not applicable. Not applicable.
Viscosity	:	Kinematic: Not applicable.
Explosive properties Oxidizing properties	:	Non-explosive. Non-oxidizer. UN Manual of Tests and Criteria, Section 39.
Particle characteristics		
Median particle size	:	2,7 - 3,6 mm

Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	The product is stable.
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Avoid contamination by any source including metals, dust and organic materials.
Incompatible materials	:	alkalis, combustible materials, reducing materials, organic materials, Acids
Hazardous decomposition products	:	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	Method	Species	Result	Exposure
name				
ammonium nitrate				
	OECD 401	Rat	2.950 mg/kg	Not applicable.
	LD50 Oral			
	OECD 402	Rat	> 5.000 mg/kg	Not applicable.
	LD50 Dermal			
potassium nitrate	·			
	LD50 Oral	Rat	2.000 mg/kg	Not applicable.
	LD50 Dermal	Rat	> 5.000 mg/kg	Not applicable.
disodium tetraborate p	entahydrate	·		
·	LD50 Oral	Rat	2.000 mg/kg	Not applicable.
	LD50 Dermal	Rabbit	> 5.000 mg/kg	Not applicable.
zinc sulphate (monohy	drate)	•		
	OÉCD 401	Rat	926 mg/kg	Not applicable.
	LD50 Oral			

Conclusion/Summary

: No known significant effects or critical hazards.

Irritation/Corrosion

Product/ingredient name	Method	Species	Result	Exposure
ammonium nitrate		I		1
	OECD 405 Eyes	Rabbit	Irritant	
potassium nitrate		·	·	
	OECD 404 Skin	Rabbit	Non-irritating.	
Date of issue : 15.11.202	23			Page:8/14

zinc sulphate (monohydrate	,	1			
	Eyes	Rabbit	Severe irritar	nt	
Conclusion/Summary					
Skin	: No knov	vn significant e	effects or critical h	azards.	
Eyes	: Causes	serious eye irr	us eye irritation.		
Deeningtown					
Respiratory	: No knov	vn significant e	effects or critical h	azaros.	
Sensitization					
Product/ingredient name	Method	Specie	es	Result	
ammonium nitrate					
	OECD 429	Mouse	9	Not sensitizing	
	Skin				

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Respiratory Mutagenicity

Skin

Product/ingredient name	Method	Test detail	Result
ammonium nitrate			
	OECD 473	Mammalian Toxicity - Genotoxicity - In vitro Mammalian Chromosome Aberration Test or Mammalian Bone Marrow Chromosomal Abberation Test or Mammalian Erythrocyte Micronucleus Test Experiment: In vitro	Negative
	OECD 471	Bacteria Experiment: In vitro	Negative

Conclusion/Summary

No known significant effects or critical hazards.

No known significant effects or critical hazards.

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 nitrate				
	OECD 422 Oral	Rat	Fertility effects- Negative Developmental- Negative NOAEL	28 days

Date of issue : 15.11.2023	Page:9/14

			1500 mg/kg w/day			
Conclusion/Summary : May damage fertility or the unborn child.						
Specific target organ toxicity No known significant effects or o						
Specific target organ toxicity No known significant effects or o		<u>e)</u>				
Aspiration hazard No known significant effects or o	critical hazards.					
Information on the likely routes of exposure	: Not availabl	е.				
Potential acute health effects						
Eye contact Inhalation	 Causes serious eye irritation. Exposure to decomposition products may cause a health 					
Skin contact Ingestion	 hazard. Serious effects may be delayed following exposure. No known significant effects or critical hazards. Irritating to mouth, throat and stomach. 					
Symptoms related to the phys	sical, chemical and	toxicological	characteristics			
Eye contact Inhalation Skin contact	 Adverse symptoms may include the following: pain or irritation, watering, redness No specific data. 					
Ingestion	No specific data.No specific data.					
Delayed and immediate effect	s and also chronic	effects from s	hort and long terr	<u>n exposure</u>		
Short term exposure						
Potential immediate effects Potential delayed effects	: Not availabl : Not availabl					
Long term exposure						
Potential immediate effects Potential delayed effects	Not availabl Not availabl					
Potential chronic health effect	<u>ts</u>					
Product/ingredient name	Method	Species	Result	Exposure		
ammonium nitrate	0505 (55					
	OECD 422 Chronic NOAEI	Rat	256 mg/kg	28 days		

	OECD 422	Rat	256 mg/kg	28 days
	Chronic NOAEL			
	Oral			
	OECD 412	Rat	> 185 mg/m ³	2 weeks 5
	Sub-acute NOEC		_	hours per day
	Inhalation			
Carcinogenicity	 No known s 	ignificant offacts	or critical bazarde	

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity

: No known significant effects or critical hazards.

Date of issue : 15.11.2023		

Reproductive toxicity	:	May damage fertility or the unborn child.
Other effects	:	No known significant effects or critical hazards.
Over-exposure signs/symptoms	<u>s</u>	
Eye contact	1	Adverse symptoms may include the following: pain or irritation,
		watering, redness
Inhalation		watering, redness No specific data.
Inhalation Skin contact	:	S ¹

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
ammonium nitrate	2950 mg/kg	N/A	N/A	N/A	N/A
zinc sulphate (monohydrate)	926 mg/kg	N/A	N/A	N/A	N/A

Section 12. Ecological information

Product/ingredien	Method	Species	Result	Exposure
t name				
ammonium nitrate				
	Acute LC50	Fish	447 mg/l	48 h
	Fresh water			
	Acute EC50	Daphnia	490 mg/l	48 h
	Fresh water			
	Acute EC50	Algae	1.700 mg/l	10 d
	Salt water			
potassium nitrate				
	OECD 203	Fish	> 100 mg/l	96 h
	Acute LC50			
	Fresh water			
	Acute EC50	Daphnia	490 mg/l	48 h
	Fresh water			
	Acute EC50	Algae	> 1.700 mg/l	240 h
	Marine water			
disodium tetraborate				
	Acute LC50	Fish	> 100 mg/l	96 h
	Fresh water			
	Acute EC50	Daphnia	> 100 mg/l	48 h
	Fresh water			
	Acute EC50	Algae	> 100 mg/l	72 h
	Fresh water			
zinc sulphate (monol	,			
	Acute LC50	Fish	0,1 - 1 mg/l	96 h
	Fresh water			

Date of issue : 15.11.2023

	Acute EC50 Fresh water		Daphnia	0,1 - 1 mg/l	48 h
Conclusion/Summa	ry :	N	o known significant e	ffects or critical haza	rds.
Persistence and deg	gradability				
Conclusion/Summa	ry :	N	o known significant e	ffects or critical haza	rds.
Bioaccumulative po	tential				
Conclusion/Summa	ry :	N	o known significant e	ffects or critical haza	rds.
Mobility in soil					
Soil/water partition coefficient (KOC)	:	No	ot available.		
Mobility	:	No	ot available.		
Other adverse effec	ts :	N	o known significant e	ffects or critical haza	rds.

Section 13. Disposal considerations

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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

	UN	IMDG	ΙΑΤΑ	
UN number	Not regulated.	Not regulated.	Not regulated.	
UN proper shipping name	Not applicable.	Not applicable.	Not applicable.	
Transport hazard class(es)	Not applicable.	Not applicable.	Not applicable.	
Date of issue : 15.11.2023 Page:12/14				

Packing group	Not applicable.	Not applicable.	Not applicable.
Environmental hazards	No.	No.	No.

<u>14.6 Special precautions for</u> <u>user</u>	:	• •	emises: Ensure that persons now what to do in the event of
Remark	:	decomposition according in the recommendations of	to self-sustaining exothermic to the S.1 trough test as defined on the Transport of Dangerous and Criteria, part III, section 38.
Transport in bulk according to IMO instruments		Proper shipping : name Remarks :	AMMONIUM NITRATE BASED FERTILIZER 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

Inventory list

Philippines inventory (PICCS): All components are listed or exempted.
New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.
Korea inventory: All components are listed or exempted.
China inventory (IECSC): All components are listed or exempted.
Australia inventory (AIIC): All components are listed or exempted.
Taiwan Chemical Substances Inventory (TCSI): All components are listed or exempted.
United States inventory (TSCA 8b): All components are active or exempted.
EC INVENTORY (EINECS/ELINCS): All components are listed or exempted.
Canada: All components are listed or exempted.
Thailand: All components are listed or exempted.

Viet Nam: All components are listed or exempted.

Section 16. Other information

Key to abbreviations	 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
Date of issue : 15.11.2023	Page:13/14

Chemicals IATA = International Air Transport Association IBC = Internediate 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) N/A = Not available 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	
SERIOUS EYE DAMAGE/ EYE		Calculation method	
IRRITATION - Category 2A			
TOXIC TO REPRODUCTION - Category 1B		Calculation method	
Key data sources :	Nation Dept. Memo Subst Spher	EACH ECHA/IUCLID5 CSR. nal Institute for Occupational Safety and Health, U.S. of Health, Education, and Welfare, Reports and oranda Registry of Toxic Effects of Chemical ances. ra Solutions Inc., 4777 Levy Street, St Laurent, Quebec 2P9, Canada.	
History			
Date of printing :	20.11	.2023	
Date of issue/Date of revision :	15.11	.2023	
	13.05	.2020	
Revision comments :		afety data sheet has been revised according to HCA 1:2021.	
Version :	2.0		
Prepared by :		ct Stewardship and Compliance (PSC).	
Indicates information that has changed from previously issued version.			

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.