Conforms: GHS (rev 4) (2011) (This Safety Data Sheet conforms to the requirements of the Hazard Communication Standard (HCS) (29 CFR 1910.1200(g)), revised in 2012.) - United States

Date of issue/ Date of revision Date of previous issue Version 08/22/2018 03/22/2016 1.1

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SAFETY DATA SHEET

YaraMila 15-15-15

Section 1. Identification		
Product identifier Product type Product code	: YaraMila 15-15-15 : solid (prills) : PG765U	
<u>Uses</u> Area of application Material uses	Professional applicationsFertilizers.	
<u>Supplier</u> Supplier's details	: Yara North America, Inc.	
<u>Address</u> Street Postal code City Country	 100 North Tampa Street, Suite 3200 33602 TAMPA United States 	
Telephone number Fax no. e-mail address of person responsible for this SDS Emergency telephone number (with hours of operation)	 +1 813 222 5700 +1 813 875 5735 yna-hesq@yara.com US: Chemtrec 24-hours Emergency Response: 1-800-424- 9300 Canada: 24 Hour Emergency Service, (Canutec 613-996- 6666) 	
National advisory body/Poison (Center	
Name Telephone number	 The National Poisons Emergency number 1 800 222 1222 	
Section 2. Hazards identification		
OSHA/HCS status	: This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).	
Classification of the substance or mixture.	: Not classified.	

GHS label elements

Signal word : No signal word.

Hazard statements	:	Not applicable.
Precautionary statements General	:	Not applicable.
Hazards not otherwise classified	:	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	>= 25 - < 30
Nitric acid potassium salt	7757-79-1	>= 7 - < 10

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 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.

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. Get medical attention if irritation occurs.
Inhalation	 If inhaled, remove to fresh air. Get medical attention if symptoms occur. 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. Get medical attention if adverse health effects persist or are severe.
Most important symptom	s/effects, acute and delayed

Potential acute health effects Eye contact Inhalation	:	No known significant effects or critical hazards. 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.
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Ingestion	:	No known significant effects or critical hazards.
Over-exposure signs/symptor	<u>ms</u>	
Eye contact	1	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.
Indication of immediate medica	atte	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 Protection of first-aiders	:	No specific treatment. 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 Unsuitable extinguishing media Specific hazards arising from the chemical Hazardous thermal	::	Use flooding quantities of water for extinction. Do NOT use chemical extinguisher or foam or attempt to smother the fire with steam or sand. 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. Decomposition products may include the following materials:
decomposition products		nitrogen oxides sulfur oxides phosphorus oxides halogenated compounds metal oxide/oxides 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.
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Remark Remark Non-flammable.None.

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. Put on appropriate personal protective equipment.
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 contain	inme	ent and cleaning up
Small spill	:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, 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

Protective measures	:	Put on appropriate personal protective equipment (see Section 8).
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
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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.

Section 8. Exposure controls/personal protection

Control parameters		
Occupational exposure limits	:	None.
Appropriate engineering controls Environmental exposure controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants. 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	:	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. A washing facility or water for eye and skin cleaning purposes should be present.
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.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved.
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 a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

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<u>Appearance</u> Physical state Color Odor Odor threshold pH	 solid [prills] Gray. Odorless. Not determined. 4.5 [Conc.: 100 g/l] 	
Melting/freezing point	: Decomposes: 160 °C (320 °F)	
Boiling/condensation point Sublimation temperature Flash point Fire point Evaporation rate Flammability (solid, gas) Lower and upper explosive (flammable) limits Vapor pressure Relative density Solubility	 Not determined. Not determined. Not determined. Not determined. Not determined. Non-flammable. Lower: Not determined. Upper: Not determined. Not determined. Not determined. Soluble in the following materials: cold water 	
Partition coefficient: n- octanol/water Auto-ignition temperature	Not determined.Not determined.	
Decomposition temperature	: 160 °C (320 °F)	
Viscosity Explosive properties Oxidizing properties	 Dynamic: Not determined. Kinematic: Not determined. None. None 	

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
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organic materials Acids

Hazardous decomposition products

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

Section 11. Toxicological information

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Information on toxicological effects

Acute toxicity

Product/ingre dient name	Result	Species	Dose	Exposure	References
Ammonium nitra	ate				
	LD50 Oral	Rat	2,950 mg/kg OECD 401	Not applicable.	IUCLID
	LD50 Dermal	Rat	> 5,000 mg/kg OECD 402	Not applicable.	IUCLID
Nitric acid potas	sium salt				
	LD50 Oral	Rat	2,000 - 5,000 mg/kg	Not applicable.	IUCLID
	LD50 Dermal	Rat	> 5,000 mg/kg	Not applicable.	IUCLID

Conclusion/Summary

No known significant effects or critical hazards.

Irritation/Corrosion

Product/ingred ient name	Result	Species	Score	Exposure	Observation	References
Mixture	Eyes - Non- irritating. OECD 405	Rabbit	< 1	1 - 48 h	14 d	Fertilizers Europe
Ammonium nitrate	Eyes - Irritant OECD 405	Rabbit	Not applic able.		Not applicable.	IUCLID
Nitric acid potassium salt	Skin - Non- irritating. OECD 404	Rabbit	0		72 h	IUCLID 5

Conclusion/Summary

Skin:Non-irritating.Eyes:Non-irritating.Respiratory:Non-irritating.

Sensitization

Conclusion/Summary

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Skin : No known significant effects or critical hazards. Respiratory : No known significant effects or critical hazards. Mutagenicity : No known significant effects or critical hazards. Conclusion/Summary : No known significant effects or critical hazards.

Carcinogenicity

Classification

Product/ingredient name	OSHA	IARC	NTP
Nitric acid potassium salt	Not applicable.	2A	Not applicable.

Conclusion/Summary

No known significant effects or critical hazards.

Reproductive toxicity

Product/ing redient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure	References
Ammonium nitrate	Not applicable.	Negative	Negative	Rat	Oral: > 1500 mg/kg bw/day OECD 422	28 days	IUCLID 5
Nitric acid potassium salt	Negative	Negative	Negative	Rat	Oral: > 1500 mg/kg bw/day OECD 422	28 days	IUCLID 5

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

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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	10	Not available.
routes of exposure		

Potential acute health effects

Eye contact

No known significant effects or critical hazards.

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Inhalation Skin contact Ingestion	:	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. No known significant effects or critical hazards. No known significant effects or critical hazards.
Symptoms related to the p	hysical, c	hemical and toxicological characteristics
Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.

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

<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Long term exposure Potential immediate effects	:	Not available.

Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure	References
Ammonium nitrate	NOAEL Oral	Rat	256 mg/kg OECD 422	28days	IUCLID 5
	NOEC Dusts	Rat	> 185	2weeks 5	IUCLID 5
	and mists Inhalation		mg/kg OECD 412	hours per day	
Nitric acid potassium salt	NOAEL Oral	Rat	> 1,500 mg/kg	28days	IUCLID 5
Carcinogenicity	: No	known signific	ant effects o	r critical hazaro	ds.
Mutagenicity	: No	known signific	ant effects o	r critical hazaro	ds.
Fertility effects	: No	known signific	ant effects o	r critical hazaro	ds.
Developmental effects	: No	known signific	ant effects o	r critical hazaro	ds.
Effects on or via lactatio	n : No	known signific	ant effects o	r critical hazaro	ds.
Other effects	: No	known signific	ant effects o	r critical hazaro	ds.
Over-exposure signs/syr	<u>nptoms</u>				
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Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.

Numerical measures of toxicity

Acute toxicity estimates	
Route	ATE value
Oral	7,122.5 mg/kg

Section 12. Ecological information

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Product/ingredient	Result	Species	Exposure	References
name				
Ammonium nitrate				
	Acute LC50 447 mg/l Fresh water	Fish	48 h	IUCLID 5
	Acute EC50 490 mg/l Fresh water	Daphnia	48 h	IUCLID 5
	Acute EC50 1,700 mg/l Salt water	Algae	10 d	IUCLID 5
Nitric acid potassium salt	· -			
	Acute LC50 1,378 mg/l Fresh water OECD 203	Fish	96 h	IUCLID 5
	Acute EC50 490 mg/l Fresh water	Daphnia	48 h	IUCLID 5
	Acute EC50 > 1,700 mg/l Fresh water	Algae	240 h	IUCLID 5

Conclusion/Summary	1	No known significant effects or critical hazards.	
Persistence and degradability			
Conclusion/Summary	:	No known significant effects or critical hazards.	
Bioaccumulative potential			
Conclusion/Summary	:	No known significant effects or critical hazards.	
<u>Mobility in soil</u>			
Soil/water partition coefficient (KOC)	:	Not available.	
Mobility	:	Not available.	
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Other adverse effects

No known significant effects or critical hazards.

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. 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 Environmental hazards	: 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	
Marine pollutant	: No.

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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 Marine pollutant	No.

Regulation: DOT Classification				
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				
Marine pollutant	: Not available.			

Regulation: TDG 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	
Not applicable.	
Environmental hazards	: 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	1	Not applicable.
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Group	1	С
Marpol V	:	Non-HME
Transport in bulk according to	:	Not applicable.

Annex II of MARPOL and the IBC Code

Section 15. Regulatory information

United States

U.S. Federal regulations	:	TSCA 8(a) CDR Exempt/Partial exemption: Not determined
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	:	Not listed
Clean Air Act Section 602 Class I Substances	:	Not listed
Clean Air Act Section 602 Class II Substances	:	Not listed
DEA List I Chemicals (Precursor Chemicals)	:	Not listed
DEA List II Chemicals (Essential Chemicals)	:	Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

Ammonium nitrate	>= 25 - < 30	F, AHF, AH
Nitric acid potassium salt	>= 7 - < 10	F, CHF

<u>SARA 313</u>

Form R - Reporting requirements

Product name	CAS number	%
Ammonium nitrate	6484-52-2	>= 25 - < 30

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Sulfuric acid ammonium salt (1:2)	7783-20-2	>= 7 - < 10
Nitric acid potassium salt	7757-79-1	>= 7 - < 10
Phosphoric acid, ammonium salt (1:1)	7722-76-1	>= 7 - < 10
Phosphoric acid, ammonium salt (1:2)	7783-28-0	>= 3 - < 5

Supplier notification

Product name	CAS number	%
Ammonium nitrate	6484-52-2	>= 25 - < 30
Sulfuric acid ammonium salt (1:2)	7783-20-2	>= 7 - < 10
Nitric acid potassium salt	7757-79-1	>= 7 - < 10
Phosphoric acid, ammonium salt (1:1)	7722-76-1	>= 7 - < 10
Phosphoric acid, ammonium salt (1:2)	7783-28-0	>= 3 - < 5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts	The following components are listed: Ammonium nitrate
	Sulfuric acid ammonium salt (1:2) Nitric acid potassium salt
New York	None of the components are listed.
New Jersey	The following components are listed: Ammonium nitrate
	Nitric acid potassium salt Calcium fluoride (CaF2)
Pennsylvania	: The following components are listed: Ammonium nitrate Sulfuric acid ammonium salt (1:2) Nitric acid potassium salt

California Prop. 65

MARNING: Cancer and Reproductive Harm - <u>www.P65Warnings.ca.gov.</u>

Inventory list

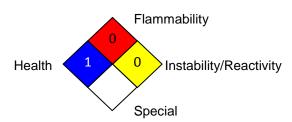
New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted. Korea inventory: All components are listed or exempted. Canada inventory: All components are listed or exempted. United States inventory (TSCA 8b): All components are listed or exempted. EC INVENTORY (EINECS/ELINCS): All components are listed or exempted. Canada: All components are listed or exempted.

Section 16. Other information

National Fire Protection Association (U.S.A.)

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

Classification	Justification
Not classified.	

Thotol y	
Date of printing Date of issue/Date of revision Date of previous issue Version Prepared by	 08/27/2018 08/22/2018 03/22/2016 1.1 Yara Chemical Compliance (YCC).
Key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = 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) UN = United Nations
Key data sources	 EU REACH 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.
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|| Indicates information that has changed from previously issued version.

Notice to reader

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