Intermediate GHS-ANSI Format. This Material Safety Data Sheet conforms to the requirements of ANSI Z400.1. -

Safety Data Sheet

YaraVera AMIDAS

1. Product and company identification

Product name	:	YaraVera AMIDAS
Product type	:	Solid [granulates]
Code	:	PA421G

Uses

Area of application	:	Professional applications
Material uses	:	Fertilizers.

Supplier

Supplier's details		Yara Colombia S.A.S.

Address

Street	:	Centro Industrial Metroparque
Street	:	Intersección Circunvalar Cordialidad
Street	:	Bodega MC 11
Postal code	:	52967
City	:	Barranquilla
Country	:	Colombia
Telephone number	:	+57 5 3289380
Fax no.	:	+57 5 3289354
e-mail address of person responsible for this SDS	:	Ricardo.Ahumada@yara.com
Emergency telephone number (with hours of operation)	:	01 800 5184127 (7/24) 01 8000 916012 (7/24) 2886012, Bogotá (7/24)

National advisory body/Poison Center

Name	:	CISPROQUIM (Centro de Información de Seguridad Sobre Productos Químicos)
Telephone number	:	Fuera de Bogotá: 01 8000 916012 / Desde Bogotá: 2886012
Hours of operation	:	24h
Validation date	:	16.06.2014
Print date	:	07.07.2014

2. Hazards identification

Emergency overview

Physical state	:	Solid [granulates]

Color	:	Yellow.
Odor	:	Odorless.slight, ammoniacal
Hazard statements	:	NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

GHS label elements

Signal word	:	No signal word.
Hazard statements	:	No known significant effects or critical hazards.

Potential acute health effects

Inhalation	:	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Ingestion	:	No known significant effects or critical hazards.
Skin	:	No known significant effects or critical hazards.
Eyes	:	No known significant effects or critical hazards.

Potential chronic health effects

Chronic effects	:	No known significant effects or critical hazards.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation	:	No specific data.
Ingestion	:	No specific data.
Skin	:	No specific data.
Eyes	:	No specific data.
Medical conditions aggravated by over-exposure	:	None known.

See toxicological information (section 11)

3. Composition/information on ingredients

Name	CAS number	%
Urea	57-13-6	>=70 - <80

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.

Remarks : Contains urea and ammonium sulphate

4. First aid measures

Eye contact	:	Rinse with plenty of running water. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Skin contact	:	Wash with soap and water. Get medical attention if symptoms occur.

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 symptoms occur.
Ingestion	:	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training.
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.

5. Fire-fighting measures

Flammability of the product	:	No specific fire or explosion hazard.
Extinguishing media		
Suitable	:	Use an extinguishing agent suitable for the surrounding fire.
Not suitable	:	None identified.
Special exposure hazards	:	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.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides
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.
Special remarks on fire hazards	:	Non-flammable.
Special remarks on explosion hazards	:	None.

6. Accidental release measures

Personal precautions	:	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 (see Section 8).
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 for 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.

7. Handling and storage

Handling : 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.

Storage : 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.

8. Exposure controls/personal protection

Occupational exposure limits

Consult local authorities for acceptable exposure limits.

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 appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Engineering measures : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

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. A washing facility or water for eye and skin cleaning purposes should be present. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Personal protection

Respiratory : 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.

Hands : 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.

Eyes : 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 or dusts.

Skin	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
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.

9. Physical and chemical properties

Physical state	:	Solid [granulates]
Flash point	:	Not determined.
Burning time	:	Not determined.
Burning rate	:	Not determined.
Auto-ignition temperature	:	Not determined.
Flammable limits	:	**Lower:** Not determined. **Upper:** Not determined.
Explosive properties	:	None.
Oxidizing properties	:	None.
Color	:	Yellow.
Odor	:	Odorless.slight, ammoniacal
pH	:	5 [Conc.: 100 g/l]
Boiling/condensation point	:	Not determined.
Sublimation temperature	:	Not determined.
Melting/freezing point	:	Not determined.
Relative density	:	Not determined.
Vapor pressure	:	Not determined.
Odor threshold	:	Not determined.
Evaporation rate	:	Not determined.
Viscosity	:	**Dynamic:** Not determined.
	:	**Kinematic:** Not determined.
Solubility	:	Easily soluble in the following materials: cold water
Solubility in water	:	> 100 g/l

10. Stability and reactivity

Chemical stability	:	The product is stable.
Conditions to avoid	:	Avoid contamination by any source including metals, dust and organic materials.
Incompatible materials	:	Urea reacts with calcium hypochlorite or sodium hypochlorite to form the explosive nitrogen trichloride.
Remark	:	Reactive or incompatible with the following materials: Oxidizing agents acids alkalis Nitrites and nitrates
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

11. Toxicological information

Information on toxicological effects

Acute toxicity

Product / ingredient name	Result	Species	Dose	Exposure	References
Urea					
	LD50 Oral	Rat	14.300 mg/kg OECD 401	-	IUCLID 5

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

Chronic toxicity

Product / ingredient name	Result	Species	Dose	Exposure	References
Urea	Chronic NOAEL Oral	Rat	2250 mg/kg	12 months 7 days per week	IUCLID 5

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

Irritation/Corrosion

Conclusion/Summary

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

Sensitization

Conclusion/Summary

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

Carcinogenicity

Product / ingredient name	Result	Species	Dose	Exposure	References
Urea	Negative - Oral - NOAEL	Rat	2250 mg/kg	-	IUCLID 5

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

Mutagenicity

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

Teratogenicity

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

Reproductive toxicity

Product / ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure	References
Urea	-	-	Negative	Rat	Oral: 500 mg/kg	7 days per week	IUCLID 5

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

IDLH : No data available.

12.Ecological information

Ecotoxicity : No known significant effects or critical hazards.

Aquatic ecotoxicity

Product / ingredient name	Result	Species	Exposure	References
Urea				
	Acute LC50 6.810 mg/l Fresh water	Fish - Labeo boga	96 h	IUCLID 5
	Acute EC50 10.000 mg/l Fresh water	Aquatic invertebrates. - Daphnia magna	24 h	IUCLID 5
	Acute NOEC 47 mg/l Fresh water	Aquatic plants - Heterosigma akashiwo	192 h	IUCLID 5

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

Persistence/degradability

Product / ingredient name	Test	Result	Dose	Inoculum	References
Urea		96 % - 16 d		Activated sludge	

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

Partition coefficient: n-octanol/water : Not available.

Mobility : Not available.

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

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. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14.Transport information

Regulation: UN Class

14.1 UN number	Not regulated.
14.2 UN proper shipping name	
14.3 Transport hazard class(es)	
14.4 Packing group	
14.5 Environmental hazards	No.
Additional information	**: UN Class**
Environmental hazards	**:** No.

Regulation: IMDG	
14.1 UN number	Not regulated.
14.2 UN proper shipping name	
14.3 Transport hazard class(es)	
14.4 Packing group	
14.5 Environmental hazards	No.
14.6 Additional information	**: IMDG**
Marine pollutant	**:** No.

Regulation: IATA	
14.1 UN number	Not regulated.
14.2 UN proper shipping name	
14.3 Transport hazard class(es)	
14.4 Packing group	
14.5 Environmental hazards	No.
14.6 Additional information	**: IATA**
Marine pollutant	**:** No.

Regulation: DOT Classification	
14.1 UN number	Not regulated.
14.2 UN proper shipping name	
14.3 Transport hazard class(es)	
14.4 Packing group	
14.5 Environmental hazards	No.
14.6 Additional information	**: DOT Classification**
Environmental hazards	**:** No.

Regulation: TDG Class	
14.1 UN number	Not regulated.
14.2 UN proper shipping name	
14.3 Transport hazard class(es)	
14.4 Packing group	
14.5 Environmental hazards	No.
14.6 Additional information	**: TDG Class**
Environmental hazards	**:** No.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product

know what to do in the event of an accident or spillage.'

IMSBC

Proper shipping name	:	FERTILIZERS WITHOUT NITRATES
Class	:	Not applicable.
Group	:	C
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	:	Not applicable.

15.Regulatory information

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

International lists

Philippines inventory (PICCS): Not determined.
New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.
Korea inventory: All components are listed or exempted.
Japan inventory: All components are listed or exempted.
China inventory (IECSC): All components are listed or exempted.
Australia inventory (AICS): All components are listed or exempted.
Canada inventory: All components are listed or exempted.
Malaysia Inventory (EHS Register): Not determined.
Taiwan inventory (CSNN): Not determined.
United States inventory (TSCA 8b): All components are listed or exempted.
EC INVENTORY (EINECS/ELINCS): All components are listed or exempted.

16.Other information

Key to abbreviations :
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
bw = Body weight
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IDLH = Immediately Dangerous to Life or Health
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

References : 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.
IHS, 4777 Levy Street, St Laurent, Quebec HAR 2P9, Canada.

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