# Magruder 251031

## 40-0-0

Results due November 15, 2025

Total Nitrogen (N)	40.0 %
5.0 % Ammoniacal N	Nitrogen
35.0 % Urea Nitroge	en

Derived from: Urea and Ammonium Sulfate

# Also analyze for:

As (ppm), Cd (ppm), Cr (ppm), Co (ppm), Pb (ppm), Hg (ppm), Mo (ppm), Ni (ppm), Se (ppm), Cu (%) and Zn (%)

The units above are those required for reporting data from this Magruder sample. They may not be the units required on a commercial fertilizer label.

Note: This Magruder Check Sample material is not to be used in the manufacture of products nor applied to any crops or for other fertilizer uses. It is intended for analytical testing purposes only.

# SDS for this product can be found at:

https://www.magruderchecksample.org/SDS/251031GuarSDS.pdf

# SDS for Magruder 251031

# **Section 1. Identification**

GHS product identifier : YaraVera Amidas 40-0-0

Product type : Solid (granules)

Product code : PA421X

<u>Uses</u>

**Area of application** : Professional applications

Material uses : Fertilizers.

**Supplier** 

Supplier's details : Yara North America, Inc.

<u>Address</u>

Street: 100 North Tampa Street, Suite 3200

Postal code : 33602 City : TAMPA

Country : United States

 Telephone number
 : +1 813 222 5700

 Fax no.
 : +1 813 875 5735

 e-mail address of person
 : yna-hesq@yara.com

responsible for this SDS Emergency telephone number

Emergency telephone number (with hours of operation) US: Chemtrec 24-hours Emergency Response: 1-800-424-

9300

Canada: 24 Hour Emergency Service, CHEMTREC 1-800-

424-9300

Section 1. National advisory body/Poison Center

Name : The National Poisons Emergency number

**Telephone 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 : Not classified.

substance or mixture.

**GHS** label elements

Signal word : No signal word.

**Hazard statements** : Not applicable.

**Precautionary statements** : Not applicable.

Hazards not otherwise : None known.

classified

**Additional information**: Product forms slippery surface when combined with water.

# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified 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. 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 adverse health

effects persist or are severe.

# Most important symptoms/effects, acute and delayed

# Potential acute health effects

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

**Inhalation** : Exposure to decomposition products may cause a health

hazard. Serious effects may be delayed following exposure.

Skin contactIngestionNo known significant effects or critical hazards.No known significant effects or critical hazards.

# Over-exposure signs/symptoms

Eye contact: No specific data.Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

#### 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 Unsuitable extinguishing

media

Specific hazards arising from

the chemical

Hazardous thermal decomposition products

: Use an extinguishing agent suitable for the surrounding fire.

None identified.

No specific fire or explosion hazard.

Decomposition products may include the following materials: nitrogen oxides, sulfur 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-flammable. 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. 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

Not for human or animal consumption.

#### Precautions for safe 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.

#### **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 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.

# 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** : 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.

**Skin protection** 

Hand protection : Chemical-resistant, impervious gloves complying with an

approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is

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

exact composition of the glove material.

**Body protection** : Personal protective equipment for the body should be selected

based on the task being performed and the risks involved.

Other skin protection : Appropriate footwear and any additional skin protection

measures should be selected based on the task being

performed and the risks involved and should be approved by a

specialist before handling this product.

**Respiratory protection**: In case of inadequate ventilation wear respiratory protection.

# Section 9. Physical and chemical properties and safety characteristics

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

**Appearance** 

Physical state : Solid [granules]

Color : Yellow.,

Odor : Odorless. slight, ammoniacal

Odor threshold : Not determined.

**pH** : 5 [Conc. (% w/w): 100 g/l]

**Melting point/freezing point**: Not determined.

Boiling point, initial boiling

point, and boiling range

Not applicable.

Flash point : Not applicable.

**Evaporation rate** : Not determined. **Flammability** : Non-flammable.

Lower and upper explosion

limit/flammability limit

**Lower:** Not applicable.

**Upper:** Not applicable.

Vapor pressure Relative vapor density Not determined.Not applicable.

Relative density

Solubility

Not determined.

Easily soluble in the following materials:

cold water

> 100 g/l

Solubility in water

Partition coefficient: n-

octanol/water

Auto-ignition temperature Decomposition temperature

Not applicable.

Not applicable.Not determined.

Viscosity : Dynamic: Not determined.

Kinematic: Not applicable.

Explosive properties Oxidizing properties

: Non-explosive.

: None

Particle characteristics

Median particle size : Not determined.

# 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 : 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.

# **Section 11. Toxicological information**

# Information on toxicological effects

# **Acute toxicity**

**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.

**Mutagenicity** 

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

**Carcinogenicity** 

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

Reproductive toxicity

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

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** : Not available.

routes of exposure:

Potential acute health effects

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

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** : No known significant effects or critical hazards.

Symptoms related to the physical, chemical 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

**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

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

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

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

Other effects : No known significant effects or critical hazards.

Over-exposure signs/symptoms

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**

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
YaraVera Amidas 40-0-0	18,888.9 mg/kg	N/A	N/A	N/A	N/A

# Section 12. Ecological information

# **Toxicity**

**Conclusion/Summary** : 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.

**Mobility in soil** 

Soil/water partition coefficient (KOC)

Not available.

Not available.

Mobility :

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. 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.

Not regulated.
Not applicable.
Not applicable.
Not applicable.
No.
: No.

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: 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.

# **IMSBC**

Bulk cargo shipping name : FERTILIZERS WITHOUT NITRATES

Class : Not applicable.

Group : C

Marpol V : Non-HME

Transport in bulk according to

**IMO** instruments

Not applicable.

# **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)

Clean Air Act Section 602

Class I Substances

Clean Air Act Section 602

Class II Substances

**DEA List I Chemicals** 

(Precursor Chemicals)

**DEA List II Chemicals** 

(Essential Chemicals)

Not listed

Not listed

Not listed

Not listed

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

No products were found.

# Form R - Reporting requirements

Product name	CAS number	%
Sulfuric acid ammonium salt (1:2)	7783-20-2	>= 20 - <= 25

# Supplier notification

Product name	CAS number	%
Sulfuric acid ammonium salt (1:2)	7783-20-2	>= 20 - <= 25

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:

Sulfuric acid ammonium salt (1:2)

**New York** : The following components are listed:

Sulfuric acid ammonium salt (1:2)

**New Jersey** : None of the components are listed.

**Pennsylvania** : The following components are listed:

Sulfuric acid ammonium salt (1:2)

### **Inventory list**

United States inventory (TSCA 8b): All components are listed or exempted.

Canada: Not determined.

# **Section 16. Other information**

#### **Hazardous Material Information System (U.S.A.)**

Health	/	0
Flammability		0
Physical hazards		0

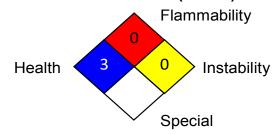
Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

#### **Chronic toxicity:**

- -: No data available.
- \*: Carcinogen, Target organs, Reproductive effects, Sensitizer to lungs

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



#### Procedure used to derive the classification

Not classified.

#### History

Date of printing : 04/18/2022 Date of issue/Date of revision : 04/12/2022 Date of previous issue : 08/22/2018

Revision comments : Section 1. National advisory body/Poison Center

Version : 2.0

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

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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 = 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)

N/A = Not available

SGG = Segregation Group

UN = United Nations

**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.

Indicates information that has changed from previously issued version.

#### Notice to reader

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