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 : 08/22/2018

Date of previous issue : 11/25/2014

Version : 1.1



# SAFETY DATA SHEET

YaraVera Granular Urea 46-0-0

# **Section 1. Identification**

Product identifier : YaraVera Granular Urea 46-0-0

Product type : solid (granulates)

Product code : PA3854

<u>Uses</u>

Area of application : Consumer applications

**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 5700Fax no.:+1 813 875 5735e-mail address of person:yna-hesq@yara.com

responsible for this SDS

**Emergency telephone number** 

(with hours of operation)

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 : 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

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 : Substance

CAS number/other identifiers

Other means of identification : Urea CAS number : 57-13-6

Ingredient name	CAS number	%
Urea	57-13-6	>= 90 - < 100

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. 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 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.

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**Skin contact** : No known significant effects or critical hazards. **Ingestion** : 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:

carbon dioxide carbon monoxide nitrogen 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 : None.

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### 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 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

**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

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leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

#### ontrol parameters

Control parameters	
Occupational exposure limits	
Ingredient name	Exposure limits
Urea	AIHA WEEL (1999-01-01) TWA 10 mg/m3 NIOSH REL (2005-09-30)
Appropriate engineering controls Environmental exposure controls	<ul> <li>Good general ventilation should be sufficient to control worker exposure to airborne contaminants.</li> <li>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.</li> </ul>
Individual protection measures	
Hygiene measures  Eye/face protection	<ul> <li>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.</li> <li>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.</li> </ul>
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

performed and the risks involved and should be approved by a

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

specialist before handling this product.

Date of issue: 08/22/2018 Page:5/15 Respiratory protection
Personal protective equipment

(Pictograms)

In case of inadequate ventilation wear respiratory protection.



# Section 9. Physical and chemical properties

**Appearance** 

Physical state : solid [granulates]

Color : White.

Odor : Odorless.slight, ammoniacal

Odor threshold : Not determined.

**pH** : 9.5 [Conc.: 100 g/l]

Melting/freezing point : 134 °C (273 °F)

Boiling/condensation point : Not determined.

**Sublimation temperature** : Not determined.

Flash point : Not applicable

Fire point : Not determined.

Evaporation rate : Not determined.

Flammability (solid, gas) : Non-flammable.

Lower and upper explosive

(flammable) limits

Vapor pressure

: Lower: Not determined. Upper: Not determined.

0.000016 hPa @ 20 °C (68 °F)

Density : 1.33 g/cm3

Relative density : Not determined.

**Solubility** : Easily soluble in the following materials:

cold water

Solubility in water : > 100 g/l

Partition coefficient: n-

octanol/water

: Not determined.

**Auto-ignition temperature** : Not determined.

**Decomposition temperature** 

**Viscosity** 

: Not determined.

**Dynamic:** Not determined. **Kinematic:** Not determined.

**Explosive properties** : None. **Oxidizing properties** : None

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# 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**

Product/ingre dient name	Result	Species	Dose	Exposure	References
Urea					
	LD50 Oral	Rat	14,300 mg/kg OECD 401	Not applicable.	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

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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**

Product/ingredient name	Result	Species	Dose	Exposure	References
Urea	Negative - Oral - NOAEL	Rat	2,250 mg/kg	Not applicable.	IUCLID 5

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

#### **Reproductive toxicity**

Product/ing redient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure	References
Urea	Not applicable.	Not applicable.	Negative	Rat	Oral: 500 mg/kg	7 days per week	IUCLID 5

**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 routes of exposure

Not available.

#### 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.

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**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

Product/ingredient	Result	Species	Dose	Exposure	References
name					
Urea	NOAEL Oral	Rat	2,250 mg/kg	12months 7 days per week	IUCLID 5

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

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

**Fertility effects**: No known significant effects or critical hazards.

**Developmental effects**: 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

Not available.

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure	References
Urea				

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Acute LC50 6,810 mg/l Fresh water	Fish	96 h	IUCLID 5
Acute EC50 10,000 mg/l Fresh water	Water flea	24 h	IUCLID 5
Chronic NOEC 47	Algae	192 h	IUCLID 5

Conclusion/Summary

No known significant effects or critical hazards.

#### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum	References
Urea	302B Inherent Biodegradabilit y: Zahn- Wellens/EMP A Test	96 % - Inherently biodegradable - 16 d	Not applicable	Activated sludge	IUCLID

Conclusion/Summary No known significant effects or critical hazards.

#### Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Urea	1.73	Not applicable.	low

Conclusion/Summary No known significant effects or critical hazards.

**Mobility in soil** 

Soil/water partition coefficient (KOC)

Not available.

**Mobility** This product may move with surface or groundwater flows

because its water solubility is: high

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

Date of issue: 08/22/2018 Page:10/15 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.

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.	

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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.

**IMSBC** 

Bulk cargo shipping name

: UREA

Class

: Not applicable.

Not applicable.

Group

: C

Marpol V

: Non-HME

Transport in bulk according to

<u>, .c.</u>

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

: Not listed

Class I Substances

Clean Air Act Section 602

Not listed

**Class II Substances** 

DEA List I Chemicals

Not listed

(Precursor Chemicals)

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**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**

#### State regulations

Massachusetts:None of the components are listed.New York:None of the components are listed.New Jersey:None of the components are listed.Pennsylvania:None of the components are listed.

### California Prop. 65

**⚠ WARNING:** Cancer and Reproductive Harm - <u>www.P65Warnings.ca.gov.</u>

#### **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. **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.

Taiwan Chemical Substances Inventory (TCSI): All components are listed or exempted. Taiwan Chemical Substances Inventory (TCSI): All components are listed or exempted.

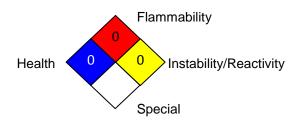
United States inventory (TSCA 8b): All components are listed or exempted. EC INVENTORY (EINECS/ELINCS): All components are listed or exempted.

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.	Calculation method		

#### **History**

Date of printing: 08/27/2018Date of issue/Date of revision: 08/22/2018Date of previous issue: 11/25/2014

Version : 1.1

**Prepared by**: 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 = 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)

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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Vara	Vera	Granu	lar I	Iroa	46-0	_0

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.

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