

# **Product Information Sheet**

YaraVera™ Urea (Prilled)

NOTE: THIS IS NOT A MATERIAL SAFETY DATA SHEET SINCE NONE IS REQUIRED FOR THIS PRODUCT. IT IS PROVIDED FOR EMPLOYEE INFORMATION ONLY.

## Section 1. Chemical product and company identification

Trade name : YaraVera™ Urea (Prilled)

**Manufacturer** : Yara North America, Inc 100 North Tampa Street

> Suite 3200 P.O. Box 24926 Tampa, FL 33623

USA

Tel: +1 813 222 5700 Fax: +1 813 875 5735

Validation date : 2011-06-06.

Print date : 2011-06-06.

Responsible name : Bill Easterwood

In case of emergency : Additional Product Information: 813-222-5700

or Chemtrec 24-hours Emergency Response: 1-800-424-9300

## Section 2. Composition, information on ingredients

 Name
 CAS number
 % by weight

 Urea
 57-13-6
 98 - 100

**Additional information** 

Contains: CAS number % by weight Methylene diurea 68611-64-3 0 - 1

Biuret 108-19-0 0 - 0.80

# Section 3. Hazards identification

Physical state : Solid. [Prills]

**Emergency overview**: MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

Potential acute health effects

Eyes : Slightly irritating to the eyes.

Skin : Slightly irritating to the skin.

Inhalation : Slightly irritating to the respiratory system. Exposure to decomposition products may

cause a health hazard. Serious effects may be delayed following exposure.

Ingestion : No known significant effects or critical hazards.
 Carcinogenic effects : No known significant effects or critical hazards.
 Mutagenic effects : No known significant effects or critical hazards.
 Reproduction toxicity : No known significant effects or critical hazards.

See toxicological Information (section 11)

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## Section 4. First aid measures

#### **Eye contact**

: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

#### **Skin contact**

: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

#### Inhalation

: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

#### Ingestion

: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

# Section 5. Fire fighting measures

Flammability of the product

: May be combustible at high temperature.

**Products of combustion** 

: These products are carbon dioxide carbon monoxide nitrogen oxides

# Fire-fighting media and instructions

: In case of fire, use water spray (fog), foam or dry chemical.

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.

## Section 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. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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

: Move containers from spill area. Approach release from upwind. 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

**Handling** 

: Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Do not smoke. Avoid contamination by any source including metals, dust and organic materials.

Storage

: Must be stored in a dry location.

Store and use away from heat, sparks, open flame or any other ignition source.

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# Section 8. Exposure controls/personal protection

## **Engineering controls**

: Use only with adequate ventilation. If 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.

#### **Personal protection**

**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, gases or dusts.

Recommended: safety glasses with side-shields

Skin

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

Respiratory

: Use a properly fitted, air-purifying or air-fed 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

>8 hours (breakthrough time): butyl rubber, natural rubber (latex), nitrile rubber.

Personal protective equipment (Pictograms)



Personal protection in case

of a large spill

: Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be adequate. Consult a specialist before handling this product.

**Product name** 

Urea

**Exposure limits** 

AIHA WEEL (United States, 1/2007).

TWA: 10 mg/m<sup>3</sup> 8 hour(s).

## Section 9. Physical and chemical properties

**Physical state** Solid. [Prills]

Color : White.

: Odorless. Ammoniacal. [Slight] Odor

**Melting/freezing point** 133°C (271,4°F)

**Specific gravity** 1,335 : 46-49 **Bulk Density (lbs/cu.ft)** 

Solubility (at 20°C/68°F] : 1200g/l (10.04 lb/gal)

## Section 10. Stability and reactivity

Stability and reactivity

Stable under recommended storage and handling conditions (see section 7).

Incompatibility with various substances

: Highly reactive with acids, alkalis, oxidizing agents, nitrites and nitrates.

Urea reacts with calcium hypochlorite or sodium hypochlorite to form the explosive nitrogen trichloride.

**Hazardous decomposition** products

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

**Hazardous polymerization** 

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

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# Section 11. Toxicological information

Other toxic effects on humans

: No specific information is available in our database regarding the other toxic effects of this material to humans.

# Section 12. Ecological information

Ingredient nameSpeciesPeriodResultUreaDaphnia magna (EC50)48 hour(s)3910 mg/lPoecilia reticulata (LC50)96 hour(s)17500 mg/l

Special remarks on the products of biodegradation

: The product does not show any bioaccumulation phenomena.

## Section 13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any byproducts should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers

Consult your local or regional authorities.

## Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
<b>DOT Classification</b>	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-

## Section 15. Regulatory information

**HCS Classification** 

U.S. Federal regulations

: Not regulated.

 TSCA 4(a) final test rules: urea, reaction product with formaldehyde; imidodicarbonic diamide

**United States inventory (TSCA 8b):** All components are listed or exempted. TSCA 12(b) one-time export: urea, reaction product with formaldehyde; imidodicarbonic diamide

SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 accidental release prevention No products were found.

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

#### State regulations

: Connecticut Carcinogen Reporting: None of the components are listed.

Connecticut Hazardous Material Survey: None of the components are listed.

Florida substances: None of the components are listed.

Illinois Chemical Safety Act: None of the components are listed.

Illinois Toxic Substances Disclosure to Employee Act: None of the components are

listed.

Louisiana Reporting: None of the components are listed. Louisiana Spill: None of the components are listed. Massachusetts Spill: None of the components are listed.

**Massachusetts Substances**: None of the components are listed. **Michigan Critical Material**: None of the components are listed.

**Minnesota Hazardous Substances**: None of the components are listed. **New Jersey Hazardous Substances**: None of the components are listed.

New Jersey Spill: None of the components are listed.

New Jersey Toxic Catastrophe Prevention Act: None of the components are listed. New York Acutely Hazardous Substances: None of the components are listed. New York Toxic Chemical Release Reporting: None of the components are listed. Pennsylvania RTK Hazardous Substances: None of the components are listed. Rhode Island Hazardous Substances: None of the components are listed.

## Section 16. Other information

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

Health O Instability
Special

Date of issue : 2011-06-06.

Date of previous issue : 2008-06-18.

Version : 4

**▼** Indicates information that has changed from previously issued version.

#### **Notice to reader**

To the best of our knowledge, the information provided in this Safety Data Sheet is accurate as at the date of its issue. The information it contains is being given for safety guidance purposes and relates only to the specific material and uses described in it. This information does not necessarily apply to that material when combined with other material(s) or when used otherwise than as described herein. Final determination of the suitability of any material is the sole responsibility of the user. All materials may represent unknown hazards and should be used with caution. Yara International ASA disclaims any liability for loss or damage resulting from the use of any data, information or recommendations set out in this Safety Data Sheet.

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# MSDS

# **Material Safety Data Sheet**

## 1. **MATERIAL IDENTIFICATION** Date: January 25, 2017

Product: 192 Gram Ground Technical Gelatin

CAS No. 9000-70-8

Synonyms: Technical Gelatin

#### **COMPANY IDENTIFICATION**

MILLIGAN & HIGGINS Division of Hudson Industries Corporation 100 Maple Avenue, P.O. Box 506 Johnstown, New York 12095-0506 USA

**EMERGENCY TELEPHONE NUMBER: 518-762-4638** 

Information Telephone Number: 518-762-4638 Facsimile Telephone Number: 518-762-7039

e-Mail: info@milligan1868.com

http://www.milligan1868.com

## **EMERGENCY OVERVIEW**

Tan to light yellow colored granular solid with low odor. Although not a combustible solid, this material will char if involved in a fire, releasing typical carbon oxides. No significant health effects are associated with this material.

## 2. COMPOSITION(Hazardous Compounds)

NO REPORTABLE QUANTITIES OF HAZARDOUS INGREDIENTS ARE PRESENT.

# **MSDS**

#### 3. <u>HAZARDS IDENTIFICATION</u>

#### **Potential Health Effects**

- Inhalation Health Risks and Symptoms of Exposure: Inhalation of dust may cause irritation of throat and respiratory tract.
- Skin and Eye Contact Health Risks and Symptoms of Exposure: Skin irritation may occur. Possible dermatitis on prolonged or repeated contact. Hot solutions may cause burns.
- Skin Absorption Health Risks and Symptoms of Exposure: No information.
- Ingestion Health Risks and Symptoms of Exposure: Not a primary route of entry.

#### 4. FIRST AID MEASURES

Eyes: Flush eyes with water until all foreign matter is completely removed. Get medical attention.

**Skin:** Wash dry material from skin with soap and water. Wash away solutions under running water, and treat for any burns

**Inhalation:** Remove affected persons to fresh air and consult physician.

#### 5. FIRE FIGHTING MEASURES

- Extinguishing Media: Water Fog, CO<sub>2</sub>, Foam, Alcohol Foam, Dry Chemical.
- Special Fire Fighting Procedures: Use Smoke Mask
- Unusual Fire and Explosion Hazards: None. When exposed to open flame or extreme heat, this material will char and eventually disintegrate with emission of smoke, leaving only a residual ash. Glue dust dispersed into the air may form explosive mixtures.
- Flash Point: 260-270°C Decomposition/Evolved Gas Flammable.

#### 6. ACCIDENTAL RELEASE MEASURES

Sweep up dry material. Allow solutions to cool completely and gel; then strip from surface. Clean up residue with warm water.

Dispose in accordance with local, state and federal environmental regulations. Small amounts of solution may be washed into sanitary sewers, if local disposal district regulations allow.

#### 7. HANDLING and STORAGE

Store is a cool, dry place. Empty packaging carefully to avoid dispersing dust into the air. Sweep up dust accumulations, if they occur. Industrial vacuum cleaner is preferred in order not to redisperse dust into the air. Avoid contact with water prior to use.

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**MSDS** 

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Respiratory Protection: Dust mask while emptying packaging. Smoke mask recommended when this material is exposed to extreme heat(260-270°C)
- Protective Gloves: Rubber or plastic while handling.
- Eye Protection: Glasses with sideshields.
- Other Protective Clothing or Equipment: Eyewash fountain.
- Work/Hygienic Practices: Wash after handling and before eating, smoking or using restrooms. Maintain good housekeeping.
- Other precautions: Do not take internally. Avoid contact with skin and eyes, and inhaling dusts.

#### 9. PHYSICAL and CHEMICAL CHARACTERISTICS

- Boiling Point: N/A (dry material)
- Vapor Density: N/A
  Evaporation Rate: N/A
  Coating V.O.C.: N/A
  Material V.O.C.: N/A
- Solubility in Water: In all proportions.
- Appearance and Odor: Tan to light yellow colored granular solid. Low Odor.
- Specific Gravity(water = 1): 1.27

#### 10. STABILITY and REACTIVITY

- Stability: Stable
- Conditions to Avoid: No information.
- Incompatibility(Materials to Avoid): No information
- Hazardous Decomposition or By-products: Oxides of carbon when burned.
- Hazardous Polymerization: None

#### 11. TOXICOLOGICAL INFORMATION

- Chronic Health Hazard and Target Organ Effects: No information.
- Carcinogenicity: NTP? No

IARC Monographs? No OSHA Regulated? No

Medical Conditions Generally Aggravated by Exposure: Skin disorders.

#### 12. ECOLOGICAL INFORMATION

No data is available on the adverse effects of this material on the environment. Neither COD and/or BOD data is available. Based on chemical composition of this material it is assumed that the material can be treated in an acclimatized biological waste treatment plant system in limited quantities.

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#### 13. <u>DISPOSAL CONSIDERATIONS</u>

This material is not considered a hazardous waste under Federal Waste Regulations. Pleased be advised, however, state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

It is recommended that this material waste be landfilled or incinerated after securing Environmental Regulatory Agency and landfill operations approval.

## 14. TRANSPORT INFORMATION

This material is not a DOT Hazardous Material.

#### 15. OTHER INFORMATION

Label information: NFPA

Fire - 0 Health - 0 Reactivity - 0 Specific Hazard

Specific Hazard - None

#### **Disclaimer**

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