

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Verdagro  
**Company Name:** W. M. Barr  
 2105 Channel Avenue  
 Memphis, TN 38113  
**Phone Number:** (901)775-0100

**Web site address:** www.wmbarr.com

**Emergency Contact:** 3E 24 Hour Emergency Contact (800)451-8346  
**Information:** W.M. Barr Customer Service (800)398-3892

**Intended Use:** Fertilizer

**Product Code:** GSX01018

**Additional Information** This product is regulated by the United States Consumer Product Safety Commission and is subject to certain labeling requirements under the Federal Hazardous Substances Act. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS). The product label also includes other important information, including directions for use, and should always be read in its entirety prior to using the product.

## 2. HAZARDS IDENTIFICATION

**Skin Corrosion/Irritation, Category 3**  
**Serious Eye Damage/Eye Irritation, Category 2B**  
**Specific Target Organ Toxicity (single exposure), Category 3**



**GHS Signal Word:** **Warning**

**GHS Hazard Phrases:** H316: Causes mild skin irritation.  
 H320: Causes eye irritation.  
 H335: May cause respiratory irritation.

**GHS Precaution Phrases:** P261: Avoid breathing mist/spray.  
 P264: Wash hands thoroughly after handling.  
 P271: Use only outdoors or in a well-ventilated area.

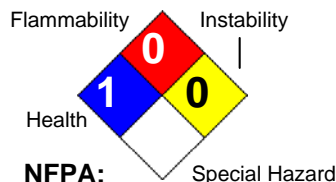
**GHS Response Phrases:** P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P312: Call a POISON CENTER or doctor/physician if you feel unwell.  
 P332+313: If skin irritation occurs, get medical advice/attention.  
 P337+313: If eye irritation persists, get medical advice/attention.

**GHS Storage and Disposal Phrases:** P405: Store locked up.  
 P501: Dispose of contents/container according to local, state and federal regulations.

**Hazard Rating System:**

<b>HEALTH</b>		<b>1</b>
<b>FLAMMABILITY</b>		<b>0</b>
<b>PHYSICAL</b>		<b>0</b>
<b>PPE</b>		<b>B</b>

**HMIS:**



**OSHA Regulatory Status:** This material is classified as hazardous under OSHA regulations.

# SAFETY DATA SHEET

## Verdagro

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### Potential Health Effects (Acute and Chronic):

#### ACUTE EFFECTS:

Eye Contact: Eye contact with liquid may cause irritation or burning sensation.

Skin Contact: Skin irritation is possible with prolonged or repeated contact.

Inhalation: If misty conditions prevail, irritation to the respiratory tract may occur.

Ingestion: If swallowed, irritation may develop in the mouth, esophagus, and stomach.

#### CHRONIC EFFECTS:

None currently known.

**Medical Conditions Generally** None known.

### Aggravated By Exposure:

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
6484-52-2	Ammonium nitrate {Nitric acid, ammonium salt}	<10.0 %
57-13-6	Urea	<10.0 %
8027-93-8	Potash, sulfurated	< 5.0 %
14265-44-2	Phosphate	< 5.0 %

### Additional Chemical Information

Specific percentage of composition is being withheld as a trade secret.

## 4. FIRST AID MEASURES

### Emergency and First Aid Procedures:

Eyes: Flush eyes with large quantities of water for a minimum of 15 minutes, holding eyelids open. If irritation persists, get prompt medical attention.

Skin: Flush skin immediately and thoroughly with water. If irritation persists, get prompt medical attention.

Inhalation: Move victim to fresh air. Seek medical attention if irritation persists.

Ingestion: If conscious, give large quantities of water immediately and induce vomiting. Get prompt medical attention.

### Signs and Symptoms Of Exposure:

See Potential Health Effects.

### Note to Physician:

In the event of an adverse response, treatment should be directed toward the control of the symptoms and the clinical condition of the patient.

## 5. FIRE FIGHTING MEASURES

**Flash Pt:** No data.

**Explosive Limits:** LEL: No data. UEL: No data.

**Autoignition Pt:** No data.

**Suitable Extinguishing Media:** Non-combustible liquid - use extinguishing media for underlying cause of fire.

**Fire Fighting Instructions:** Use positive pressure self-contained breathing apparatus with full protective clothing.

**Flammable Properties and Hazards:** This material is non-combustible.

Decomposition products may be toxic.

## 6. ACCIDENTAL RELEASE MEASURES

**Environmental Precautions:** Prevent spilled material from entering storm drains or water bodies.

**Steps To Be Taken In Case Material Is Released Or Spilled:** Collect spilled product and store to re-use. Contaminated product and/or environmental media should be recovered and disposed of properly.

## 7. HANDLING AND STORAGE

**Precautions To Be Taken in Handling:** No data available.

**Precautions To Be Taken in Storing:** Store in a cool, dry, well ventilated area. Do not store above 120 F.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
6484-52-2	Ammonium nitrate {Nitric acid, ammonium salt}	No data.	No data.	No data.
57-13-6	Urea	No data.	No data.	No data.
8027-93-8	Potash, sulfurated	No data.	No data.	No data.
14265-44-2	Phosphate	No data.	No data.	No data.

**Respiratory Equipment (Specify Type):** NIOSH approved particulate / mist respirator, if required

**Eye Protection:** Safety glasses with side shields are required at a minimum. Where contact is likely, the use of chemical splash goggles plus a face shield is recommended.

**Protective Gloves:** Wear chemical-resistant gloves.

**Other Protective Clothing:** Where contact is likely, a chemical suit and rubber boots are recommended.

**Engineering Controls (Ventilation etc.):** Local exhaust is normally sufficient.

**Work/Hygienic/Maintenance Practices:** Wash hands before eating, drinking, or smoking.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical States:** [ ] Gas [ X ] Liquid [ ] Solid  
**Appearance and Odor:** Light green to amber liquid, slight odor.  
**Melting Point:** No data.  
**Boiling Point:** No data.  
**Autoignition Pt:** No data.  
**Flash Pt:** No data.  
**Explosive Limits:** LEL: No data. UEL: No data.  
**Specific Gravity (Water = 1):** 1.15 - 1.4  
**Vapor Pressure (vs. Air or mm Hg):** No data.  
**Vapor Density (vs. Air = 1):** No data.  
**Evaporation Rate:** No data.  
**Solubility in Water:** No data.  
**Solubility Notes:** Soluble  
**pH:** 6.8  
**Percent Volatile:** No data.

## 10. STABILITY AND REACTIVITY

**Stability:** Unstable [ ] Stable [ X ]  
**Conditions To Avoid - Instability:** No data available.  
**Incompatibility - Materials To Avoid:** Zinc and copper alloys  
**Hazardous Decomposition or Byproducts:** NH3, NOx, POx  
**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]  
**Conditions To Avoid - Hazardous Reactions:** Contact with bases, reducing agents; exposure to excessive heat

## 11. TOXICOLOGICAL INFORMATION

**Toxicological Information:** May be irritating to the eyes, skin, respiratory tract, and/or mucus membranes. Significant eye exposures may result in conjunctivitis and possible corneal damage. Ingestion of large amounts may cause violent gastroenteritis. Dizziness, abdominal cramps, vomiting, nausea, weakness, headache, mental impairment, and cyanosis may result from significant overexposure. Anemia, methemoglobinemia, and nephritis may result from chronic exposure.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
6484-52-2	Ammonium nitrate {Nitric acid, ammonium salt}	n.a.	n.a.	n.a.	n.a.
57-13-6	Urea	n.a.	n.a.	n.a.	n.a.
8027-93-8	Potash, sulfurated	n.a.	n.a.	n.a.	n.a.
14265-44-2	Phosphate	n.a.	n.a.	n.a.	n.a.

## 12. ECOLOGICAL INFORMATION

**General Ecological Information:** This product is not known to be ecotoxic, persistent, or have the potential to bioaccumulate.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Dispose of in accordance with local, state, and federal laws.

## 14. TRANSPORT INFORMATION

**LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** Not Regulated.

**DOT Hazard Class:**

**UN/NA Number:**

## 15. REGULATORY INFORMATION

**EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists**

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
6484-52-2	Ammonium nitrate {Nitric acid, ammonium salt}	No	No	No
57-13-6	Urea	No	No	No
8027-93-8	Potash, sulfurated	No	No	No
14265-44-2	Phosphate	No	No	No

**This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:**

<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Acute (immediate) Health Hazard
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Chronic (delayed) Health Hazard
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Fire Hazard
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Sudden Release of Pressure Hazard
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Reactive Hazard

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
6484-52-2	Ammonium nitrate {Nitric acid, ammonium salt}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 8A CAIR; CA PROP.65: No
57-13-6	Urea	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 8A CAIR; CA PROP.65: No
8027-93-8	Potash, sulfurated	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No
14265-44-2	Phosphate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

## 16. OTHER INFORMATION

**Revision Date:** 11/17/2015  
**Preparer Name:** W.M. Barr EHS Dept (901)775-0100  
**Additional Information About This Product:** No data available.

**Company Policy or Disclaimer:** The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information

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must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.