

MATERIAL SAFETY DATA SHEET

Verdagro

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1. Product and Company Identification

Product Code: GSX01018
Product Name: Verdagro
Reference #: BSNX104.2

Manufacturer Information

Company Name: W. M. Barr
2105 Channel Avenue
Memphis, TN 38113

Phone Number: (901)775-0100

Emergency Contact: 3E 24 Hour Emergency Contact (800)451-8346

Information: W.M. Barr Customer Service (800)398-3892

Web site address: www.wmbarr.com

Preparer Name: W.M. Barr EHS Dept (901)775-0100

Chemical Family: Inorganic salt mixture

2. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS #	Concentration	OSHA PEL	ACGIH TLV
1. Urea Nitrogen	NA	1.0 -10.0 %	No data.	No data.
2. Ammoniacal Nitrogen	NA	1.0 -7.0 %	No data.	No data.
3. Nitrate Nitrogen	NA	1.0 -7.0 %	No data.	No data.
4. Available Phosphate	NA	1.0 -5.0 %	No data.	No data.
5. Soluble Potash	NA	1.0 -5.0 %	No data.	No data.

3. Hazards Identification

Emergency Overview

No data available.

OSHA Regulatory Status:

This material is classified as hazardous under OSHA regulations.

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.

Signs and Symptoms Of Exposure

See Potential Health Effects.

Medical Conditions Generally Aggravated By Exposure

None known.

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: Generally not considered an inhalation hazard.

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

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.

Fire Fighting Instructions

Use positive pressure self-contained breathing apparatus with full protective clothing.

Flammable Properties and Hazards

This material is non-combustible.

Decomposes at elevated temperatures to produce toxic fumes of ammonia.

Hazardous Combustion Products

When heated, gives off ammonia gas.

Extinguishing Media

Non-combustible liquid - use extinguishing media for underlying cause of fire.

Unsuitable Extinguishing Media

No data available.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled

Contain spills and maximize recovery. Mop or pump up promptly into metal or plastic containers. If uncontaminated, reuse product.

7. Handling and Storage

Precautions To Be Taken in Handling

Do not contaminate water supplies, lakes, streams, or ponds. Avoid breathing mist. Avoid contact of liquid with eyes, skin, and clothing. Use good personal hygiene and housekeeping.

Precautions To Be Taken in Storing

Keep out of reach of children. Do not store with Food, Feed, or other materials to be used or consumed by humans or animals.

Other Precautions

Facilities storing or utilizing this material should be equipped with an eyewash and safety shower.

8. Exposure Controls/Personal Protection

Respiratory Equipment (Specify Type)

Wear NIOSH approved respiratory protective equipment when vapor or mists may exceed applicable concentration limits.

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
Melting Point: No data.
Boiling Point: > 225.00 F
Autoignition Pt: No data.
Flash Pt: No data.
Explosive Limits: LEL: No data. UEL: No data.
Specific Gravity (Water = 1): 1.3
Vapor Pressure (vs. Air or mm Hg): No data.
Vapor Density (vs. Air = 1): No data.
Evaporation Rate (vs Butyl Acetate=1): No data.
Solubility in Water: No data.
Solubility Notes
 Soluble in water.
Percent Volatile: 72.0 % by weight.
Corrosion Rate: No data.
pH: No data.

Appearance and Odor

Light green to amber liquid, slight odor.

10. Stability and Reactivity

Stability: Unstable [] Stable [X]

Conditions To Avoid - Instability

No data available.

Incompatibility - Materials To Avoid

Zinc-clad and copper bearing alloys. Water reactive materials. Avoid contact with bases, aluminum, copper, mild steel, brass and bronze. Avoid high temperatures.

Hazardous Decomposition Or Byproducts

Phosphorous oxides and/or phosphine from thermal decomposition and hydrogen gas from reaction with metals.

Hazardous Polymerization: Will occur [] Will not occur [X]

Conditions To Avoid - Hazardous Polymerization

No data available.

11. Toxicological Information

No data available.

Carcinogenicity/Other Information

No data available.

Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1. Urea Nitrogen	NA	No	No	No	No
2. Ammoniacal Nitrogen	NA	n.a.	n.a.	n.a.	n.a.
3. Nitrate Nitrogen	NA	n.a.	n.a.	n.a.	n.a.
4. Available Phosphate	NA	n.a.	n.a.	n.a.	n.a.
5. Soluble Potash	NA	n.a.	n.a.	n.a.	n.a.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

12. Ecological Information

No data available.

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 by D.O.T.

Additional Transport Information

For additional D.O.T. information, contact W.M. Barr Technical Services at 1-800-398-3892.

15. Regulatory Information

US EPA SARA Title III

Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. Urea Nitrogen	NA	No	No	No	No
2. Ammoniacal Nitrogen	NA	No	No	No	No
3. Nitrate Nitrogen	NA	No	No	No	No
4. Available Phosphate	NA	No	No	No	No
5. Soluble Potash	NA	No	No	No	No

SARA (Superfund Amendments and Reauthorization Act of 1986) Lists:

- Sec.302:** EPA SARA Title III Section 302 Extremely Hazardous Chemical with TPQ. * indicates 10000 LB TPQ if not volatile.
- Sec.304:** EPA SARA Title III Section 304: CERCLA Reportable + Sec.302 with Reportable Quantity. ** indicates statutory RQ.
- Sec.313:** EPA SARA Title III Section 313 Toxic Release Inventory. Note: -Cat indicates a member of a chemical category.
- Sec.110:** EPA SARA 110 Superfund Site Priority Contaminant List

Regulatory Information

Section 15. Regulatory Information not established for this msds.

16. Other Information

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