

# Safety Data Sheet

Issued Date: July 15, 2015

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Version 1

## 1. IDENTIFICATION

### Product Identifier

Product Name GRN-644 Green Friendly Toilet Bowl Cleaner

### Other means of identification

Product Code GRN-644

### Recommended use of the chemical and restrictions on use

Recommended Use Cleaning toilet bowls and urinals, porcelain and stainless steel surfaces.

### Details of the supplier of the safety data sheet

Missouri Vocational Enterprises  
 2727 Highway K  
 Bonne Terre, MO 63628  
 Phone: (573) 358-5516

### Emergency Telephone Number

INFOTRAC 1-800-535-5053 (North America)  
 1-352-323-3500 (International)

## 2. HAZARDOUS IDENTIFICATION

Signal Word **DANGER**

Classification	Hazard Category
Skin - Corrosion/Irritation	1A
Serious Eye Damage/Irritation	1
Acute Toxicity – Inhalation (Dusts/Mists)	4
Specific Target Organ Toxicity - Single Exposure	3

### Health Hazard Statement(s)

H314 – Causes severe skin burns and eye damage.  
 H332 – Harmful if inhaled.  
 H335 – May cause respiratory irritation.

### Hazard Pictogram(s)



### Hazard Ratings

	HMIS	NFPA
Health	1	1
Flammability	0	0
Reactivity	0	0
PPE	B	N/A

### Precautionary Statement(s)

P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.  
 P264 – Wash face, hands and any exposed skin thoroughly after handling.  
 P271 – Use only outdoors or in a well-ventilated area.  
 P280 – Wear protective gloves/protective clothing/ eye protection/face protection.  
 P301+P330+P331 – IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.  
 P303+P361+P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P363 – Wash contaminated clothing before reuse.  
 P304+P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 – Call a POISON CENTER or doctor/physician if you feel unwell.

P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 – Immediately call a POISON CENTER or doctor/physician.

#### Potential Health Effects

<b>Skin Contact</b>	May cause severe skin burns.
<b>Eye Contact</b>	May cause severe eye damage.
<b>Inhalation</b>	May cause respiratory irritation.
<b>Ingestion</b>	May be harmful if swallowed.

### 3. COMPOSITION/INFORMATION ON INGREDIENT

Chemical Name/Pure Substance	CAS #	Weight-%
Water	7732-18-5	70-75
Glycolic Acid	79-14-1	25-30
Nonionic Surfactant	Proprietary	1-5
Citric Acid	77-92-9	0-1
Other components below reportable levels		0-1

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. FIRST-AID MEASURES

<b>General Advice</b>	If you feel unwell, seek medical advice (show label where possible).
<b>Eye Contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
<b>Skin Contact</b>	Wash off immediately with plenty of water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.
<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
<b>Ingestion</b>	Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.

#### Most important symptoms and effects

<b>Symptoms</b>	Symptoms may include stinging, tearing, redness, swelling, blurred vision, skin irritation, and pain.
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### 5. FIRE-FIGHTING MEASURES

#### Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media that is appropriate to local circumstances.

Unsuitable Extinguishing Media: No applicable data available.

#### Specific Hazards Arising from the Chemical

Not determined.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal precautions	Use personal protective equipment as required.
Environmental precautions	See Section 12 for additional ecological information.

### Methods and material for containment and clean up

Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Clean up	Keep in suitable, closed containers for disposal at an approved waste disposal site.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Use only in well-ventilated areas. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling. Use personal protection recommended in Section 8.

### Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.
Incompatible Materials	Not available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	Dupont AEL
Glycolic Acid	TWA: 10 mg/m <sup>3</sup> , 8 & 12 h

### Appropriate engineering controls

Engineering Controls	Apply technical measures to comply with the occupational exposure limits. Government agencies exposure limits take precedence over the exposure limits expressed on this SDS where applicable.
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### Individual protection measures, such as personal protective equipment

Eye/Face Protection	Wear approved safety glasses.
Skin and Body Protection	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Respiratory Protection	Ensure adequate ventilation, especially in confined areas.
General Hygiene Considerations	Do not eat, drink, or smoke when using this product. Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Physical State	Liquid	Odor	Citrus
Color	Colorless	Odor Threshold	Not Determined
<u>Property</u>	<u>Values</u>	<u>Remarks - Method</u>	
pH	3.5-5.5	6-7 at 1:128 to 1:10 dilution	
Melting Point/Freezing Point	28-30 °F (approx. -2 to -1 °C)		
Boiling Point/Boiling Range	>200 °F (>93.3 °C)		
Flash Point	>180 °F (>82.2 °C)		
Evaporation Rate	Not available		
Flammability (Solid, Gas)	Liquid- Not applicable		

Upper Flammability Limits	Not available
Lower Flammability Limits	Not available
Vapor Pressure	Not available
Vapor Density	Not available
Specific Gravity	1.005-1.008
Water Solubility	Complete
Solubility in other solvents	Not available
Partition Coefficient	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available
Explosive Properties	Not available
Oxidizing Properties	Not available

## 10. STABILITY AND REACTIVITY

Reactivity	Not reactive under normal conditions.
Chemical Stability	Stable under recommended storage conditions.
Conditions to Avoid	High temperatures. Keep out of reach of children.
Incompatible materials	May react with strong alkalis.
Hazardous Decomposition Products	None known based on information supplied.
Hazardous Polymerization	Not available.

## 11. TOXICOLOGICAL INFORMATION

Component	Oral LD50	Dermal LD50
Glycolic Acid (CAS 79-14-1)	2,040 mg/kg (Rat)	>5,000 mg/kg (Human)
Citric Acid (CAS 77-92-9)	5,040 mg/kg (Mouse) 6,730 mg/kg (Rat)	42 mg/kg (Mouse) 330 mg/kg (Rabbit) 883 mg/kg (Rat)

### Information on likely routes of exposure

Eye contact	May cause damage to the eyes.
Skin contact	May cause skin corrosion.
Ingestion	May cause damage to the mouth, throat, and stomach.
Inhalation	Not a likely inhalation hazard. But could cause respiratory irritation.

### Symptoms related to the physical, chemical, and toxicological characteristics

Symptoms may include stinging, tearing, redness, swelling, blurred vision, irritation, and pain.

### Carcinogenicity Reproductive toxicity Toxicological information

Not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.  
Not expected to be harmful to reproductivity.  
No further relevant information available.

## 12. ECOLOGICAL INFORMATION

### Ectotoxicity

Component	LC50	ErC50	EC50
Glycolic Acid	Pimephales promelas (fathead minnow) 164 mg/L, 96 h	Pseudokirchneriella subcapitata (green algae) 44 mg/L, 72 h	Daphnia magna (water flea) 141 mg/L, 48 h

**Green Friendly Toilet Bowl Cleaner**  
**Persistence and degradability**

**GRN-644**

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Components of this product are readily biodegradable.

**Bioaccumulative potential**

No data available.

**Other adverse effects**

No further relevant data available.

### 13. DISPOSAL CONSIDERATIONS

**Disposal Instructions**

Dispose of in accordance with local, regional, and national laws and regulations.

**Hazardous Waste Code**

Not available.

**Waste from residues / unused products**

Dispose of in accordance with local, regional, and national laws and regulations.

**Contaminated Packaging**

Do not re-use empty containers. Treat the same as unused product due to residues being left in container.

### 14. TRANSPORT INFORMATION

**Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT I.D. Number**

UN3265

**DOT Proper Shipping Name**

Corrosive liquid, acidic

**DOT Hazard Classes:**

US DOT

8

Road (ADR)

8

Air (ICAO/IMDG)

8

Sea (IMO/IMDG)

8

**Packing Group**

II

**DOT Label**

8

### 15. REGULATORY INFORMATION

**U.S. Federal Regulations**

Contents of this SDS comply with OSHA Hazard Communication Standard CFR 1910.1200.

**OSHA Hazard Communication Standard (29 CFR 1910.1200)**

( X ) Hazardous ( ) Non- Hazardous

**SARA TITLE III**

Section 302/304

Extremely Hazardous Substances: No

Section 311/312

(40CFR370) Hazardous Categories: No

Section 313

Contains the following SARA 313 Toxic Release Chemicals: No

**CERCLA**

**CERCLA Regulatory**

Not regulated.

**State Regulations**

**California Prop 65**

This product may contain the following ingredient(s) known to the state of California to cause cancer, birth defects or other reproductive harm: None.

**Inventories**

All components are either listed or exempt on the United States Toxic Substances Control Act Inventory.

**16. OTHER INFORMATION****Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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