

SECTION I – PRODUCT IDENTIFICATION

Product Name: GREENSHIELD DIRECT GREEN TILE & GROUT RESTROOM CLEANER-GALLON
Product Code Number: 312
Product Use: Cleaner
WHMIS Class: Class D – Division 2B
DOT Classification: Not regulated as dangerous goods
TDG Classification: Not regulated as dangerous goods
Manufacturer/Supplier: GREENSHIELD DIRECT
 P. O. Box 901
 Northvale, NJ 07647
General Assistance: 800-548-3285; **INFO TRAK:** 800-535-5053
Emergency Telephone: 866-836-8855 **USA**
Emergency Telephone: 952-852-4646 **CANADA**

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	1
Flammability	0
Physical Hazard	0
Personal Protection	

SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

INGREDIENT(S)	CAS#	WT%	OSHA PELS	ACGIH-TLV	LC50	ORAL LD50
Citric acid	77-92-9	5-10	10 mg/m3-TWA	10 mg/m3-TWA	Not available	5040 mg/kg mouse; 3000 mg/kg rat
Alcohols, C12-15, ethoxylated	68131-39-5	1-5	Not established	Not established	5 mg/l rat	2000 mg/kg rat
Alcohols, C9-11, ethoxylated	68439-46-3	1-5	Not established	Not established	Not available	1200 mg/kg rat
Amides, coco, N-[3-(dimethylamino) propyl], N-oxides	68155-09-9	0.5-1.5	Not established	Not established	Not available	6500 mg/kg rat

SECTION III - PHYSICAL CHARACTERISTICS

Boiling Point: 100°C	Specific Gravity: 1.05 – 1.06 @25°C (77°F) (H2O = 1)
Freezing Point: 0°C	Coefficient of Water/Oil Distribution: Not available
Vapor Pressure: Same as water	% Volatile: 80-85%
Vapor Density: Same as water	Evaporation Rate: 1 (H2O = 1)
Solubility in Water: Complete	pH: 2 - 3
Physical State: Liquid	Viscosity: Same as water
Appearance: Green Liquid	Odor Threshold: Low odor
Odor: Characteristic	

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammability: Not flammable by WHMIS/OSHA criteria
Flash Point: >100.00°C (>212°F) **LEL:** Not available **UEL:** Not available
Hazardous Combustion Products: May include and are not limited to: Oxides of carbon.
Autoignition Temperature: Not available
EXPLOSION DATA:
Sensitivity to Mechanical Impact: Not available
Sensitivity to Static Discharge: Not available
Means of Extinction: Dry chemical. Foam. Alcohol foam. Carbon dioxide.
Special Fire Hazards: Firefighters should wear a self-contained breathing apparatus.

SECTION V - REACTIVITY DATA

Conditions for Chemical Instability: Stable.
Incompatible Materials: Strong oxidizing agents. Caustics. Reducing agents.
Reactivity, and Under What Conditions: Do not mix with other chemicals.
Hazardous Decomposition Products: May include and are not limited to: Oxides of carbon.

SECTION VI - TOXICOLOGICAL PROPERTIES

Route of Entry: Eye, skin contact, inhalation, ingestion.

EFFECTS OF ACTIVE EXPOSURE:

- Eye:** May cause irritation.
- Skin:** May cause irritation.
- Inhalation:** May cause respiratory tract irritation.
- Ingestion:** May cause stomach distress, nausea or vomiting.

EFFECTS OF CHRONIC EXPOSURE:

- Skin:** Prolonged or repeated exposure can cause drying, defatting and dermatitis.
- Irritancy:** Hazardous by WHIMIS/OSHA criteria.
- Respiratory Tract Sensitization:** Non-hazardous by WHIMIS/OSHA criteria.
- Carcinogenicity:** Non-hazardous by WHIMIS/OSHA criteria.
- Teratogenicity:** Non-hazardous by WHIMIS/OSHA criteria.
- Mutagenicity:** Mutagenic effects were observed in somatic and reproductive cells of live animals (rats and mice) exposed to high oral doses of ethanol.
- Reproductive Effects:** Not-hazardous by WHIMIS/OSHA criteria.
- Synergistic Materials:** Not available

SECTION VII – PREVENTATIVE MEASURES

- Gloves:** Rubber gloves. Confirm with a reputable supplier first.
- Eye Protection:** Safety glasses
- Respiratory Protection:** Not normally required if good ventilation is maintained.
- Other Protective Equipment:** As required by employer code.
- Engineering Controls:** General ventilation normally adequate.
- Leak and Spill Procedure:** Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labeled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.
- Waste Disposal:** Review federal, state/provincial, and local government requirements prior to disposal.
- Handling Requirements:** Use good industrial hygiene practices in handling this material. Wash hands before breaks and immediately after handling the product.
- Storage Requirements:** Keep out of reach of children. Store in a closed container away from incompatible materials.

SECTION VIII - FIRST AID

- Eye:** Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.
- Skin:** Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.
- Inhalation:** If symptoms develop move victim to fresh air. If symptoms persist obtain medical attention.
- Ingestion:** Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water. Obtain medical attention. Never give anything by mouth if victim is unconscious, or if convulsing.

SECTION IX – PREPARATION INFORMATION

Effective Date: September 18, 2007
Expiry Date: September 18, 2010
Issue Date: September 18, 2007
Prepared By: Attn: Regulatory Manager 630-543-7600

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.