

SECTION I – PRODUCT IDENTIFICATION

Product Name: GREENSHEILD DIRECT GREEN HEAVY DUTY CLEANER & DEGREASER-GALLON

Product Code Number: 311

Product Use: Cleaner/Degreaser

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	2
Flammability	0
Physical Hazard	0
Personal Protection	

SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

INGREDIENT(S)	CAS#	WT%	OSHA PELS	ACGIH-TLV	LC50	ORAL LD50
Alcohols, C12-15, ethoxylated	68131-39-5	3-7	Not established	Not established	Not available	1600 mg/kg rat
1-Octanesulfonic acid, sodium salt	5324-84-5	1-5	Not established	Not established	Not available	5000 mg/kg rat
Dimethyl glutarate	1119-40-0	1-5	Not established	Not established	6.1 mg/l/4h rat	8191 mg/kg rat
Sodium carbonate	497-19-8	1-5	Not established	Not established	400 mg/m3 guinea pig	4090 mg/kg rat

SECTION III - PHYSICAL CHARACTERISTICS

Boiling Point: 100°C	Specific Gravity: 1.045 – 1.060
Freezing Point: 0°C	
Vapor Pressure: Same as water	Coefficient of Water/Oil Distribution: Not available
Vapor Density: Same as water	% Volatile: 80 - 85
Solubility in Water: Complete	Evaporation Rate: Not available
Physical State: Liquid	pH: 10.5 – 11 (100%)
Appearance: Clear Green Liquid	Viscosity: Same as water
Odor: Characteristic	Odor Threshold: Low odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammability: Not flammable by WHIMIS/OSHA criteria	
Flash Point: None	LEL: Not available UEL: Not available
Hazardous Combustion Products: May include and are not limited to: Oxides of carbon. Oxides of sulphur.	
Autoignition Temperature: Not available	
EXPLOSION DATA:	
Sensitivity to Mechanical Impact: Not available	
Sensitivity to Static Discharge: Not available	
Means of Extinction: Treat for surrounding material.	
Special Fire Hazards: Firefighters should wear a self-contained breathing apparatus.	

SECTION V - REACTIVITY DATA

Conditions for Chemical Instability: Stable at normal conditions.
Incompatible Materials: Acids. Oxidizers.
Reactivity, and Under What Conditions: Do not mix with other chemicals.
Hazardous Decomposition Products: May include and are not limited to: Oxides of carbon. Oxides of sulphur.

SECTION VI - TOXICOLOGICAL PROPERTIES

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

EFFECTS OF ACTIVE EXPOSURE:

- Eye:** Causes 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:** Dispose in accordance with all applicable regulations.
- 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.