



Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200



WHMIS CLASS D-2: Material causing other toxic effects.
WHMIS Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).

Class: Irritating substance.
HCS Class: Combustible liquid having a flash point between 37.8°C (100°F) and 93.3°C (200°F).

WHMIS (Pictograms)

WHMIS (Classification)

HCS

Section 1. Chemical Product and Company Identification

Product Name/ Trade name	Green Earth Glass Cleaner	Code	535
Synonym	Not available.	CAS #	Mixture.
Chemical Family	Not available.	Validation Date	3/2/2007
Chemical Formula	Not applicable.	Print Date	3/23/2007
Manufacturer/ Supplier	Betco Corporation 1001 Brown Avenue Toledo, Oh 43607 (419) 241-2156	In Case of Emergency	Chemtrec (800) 424-9300
TSCA	TSCA Inventory: All components listed or are exempt from listing.		
DSL/ NDSL	All components listed unless noted elsewhere on this MSDS		
		Protective Clothing	

Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
Propylene Glycol NButyl Ether	5131-66-8	20-25	Not available.	ORAL (LD50): Acute: 3200 mg/kg [Rat]. DERMAL (LD50): Acute: >2000 mg/kg [Rabbit].
2-Propoxyethanol	2807-30-9	10-15	Not available.	Not available.
Sodium Lauryl Sulfate	151-21-3	1-5	Not available.	Not available.
Sodium Xylene Sulfonate	1300-72-7	1-5	Not available.	ORAL (LD50): Acute: 650 mg/kg [Rat]. 5939 mg/kg [Mouse].
Alkylpolyglucosides	68515-73-1	1-5	Not available.	Not available.

Section 3. Hazards Identification

Potential Acute Health Effects	This product is an eye irritant. Harmful if swallowed.
Potential Chronic Health Effects	Repeated skin exposure can produce local skin destruction, or dermatitis. This product may aggravate existing skin conditions such as dermatitis. May aggravate existing respiratory conditions such as asthma. Over-exposure by inhalation may cause respiratory irritation. Repeated or prolonged exposure to the substance can produce kidney damage. Repeated or prolonged exposure to the substance can produce blood disorders.
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Section 4. First Aid Measures

Eye Contact	Hold eye open and rinse slowly and thoroughly with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek immediate medical attention.
Skin Contact	Seek medical attention.
Inhalation	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration., preferably mouth to mouth if possible.
Ingestion	Call a poison control center immediately for treatment advice. Have person sip a glass of water if able to swallow. Do NOT induce vomiting unless instructed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person

Section 5. Fire Fighting Measures

Products of Combustion	Not available.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Special Remarks on Fire Hazards	Vapor may travel considerable distance to source of ignition and flash back. FLAMMABLE. When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined. Fine powder forms flammable and explosive mixtures in air. (Propylene Glycol NButyl Ether)
Special Remarks on Explosion Hazards	Not available.


Section 6. Accidental Release Measures

Small Spill and Leak	Absorb with an inert material and put the spilled material in an appropriate waste disposal.
Large Spill and Leak	Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.
Personal Protection in Case of a Large Spill	Butyl gloves. Splash goggles. Boots.

Section 7. Handling and Storage

Precautions	Avoid contact with skin and eyes Avoid breathing vapors or spray mists.
Incompatibility	alkalis acids oxidizing agents heat
Storage	Keep out of the reach of children. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents. Not for use or storage in or around the home.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Good general ventilation should be sufficient to control airborne levels.
Personal Protection	
<i>Eyes</i>	Safety glasses.
<i>Body</i>	No additional special protective clothing is required.
<i>Respiratory</i>	A respirator is not needed under normal and intended conditions of product use. Wear appropriate respirator when ventilation is inadequate.
<i>Hands</i>	No additional special protective clothing is required.
Protective Clothing (Pictograms)	
Exposure Limits	Not available.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid.	Odor	Characteristic.
Molecular Weight	Not applicable.	Taste	Not available.
pH	7.5-9.0 [Basic.]	Color	Blue.
Boiling/Condensation Point	100°C (212°F)		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Specific Gravity	0.98174 (Water = 1)		
Vapor Pressure	Not available.		
Vapor Density	>1 (Air = 1)		
Volatility	>85%		
VOC	Not available.		
Evaporation Rate	Not available.		
Dispersion Properties	Not available.		
Solubility	Not available.		
The Product is:	COMBUSTIBLE.		
Auto-ignition Temperature	Not available.		
Flash Points	Closed cup: 61.111°C (144°F).		
Flammable Limits	Not available.		
Fire Hazards in Presence of Various Substances	Not available.		
Explosion Hazards in Presence of Various Substances	Containers may explode when heated.		

Section 10. Stability and Reactivity Data

Stability	The product is stable.
Incompatibility with Various Substances	alkalis acids oxidizing agents heat
Hazardous Decomposition Products	Not available.

Section 11. Toxicological Information

Routes of Entry	Absorbed through skin. Eye contact. Inhalation. Ingestion.
Toxicity to Animals	LD50: Estimated Oral (Rat) >5000 mg/kg
Acute Effects on Humans	<i>Eyes</i> Mildly irritating to the eyes. <i>Skin</i> Non-irritant for skin. <i>Inhalation</i> Slightly hazardous in case of inhalation. <i>Ingestion</i> Slightly hazardous in case of ingestion.
Chronic Effects on Humans	Repeated skin exposure can produce local skin destruction, or dermatitis. This product may aggravate existing skin conditions such as dermatitis. May aggravate existing respiratory conditions such as asthma. Over-exposure by inhalation may cause respiratory irritation. Repeated or prolonged exposure to the substance can produce kidney damage. Repeated or prolonged exposure to the substance can produce blood disorders.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available.

Section 12. Ecological Information

Ecotoxicity	Estimated to have low aquatic toxicity.
BOD5 and COD	Not available.
Products of Biodegradation	Not available.
Toxicity of the Products of Biodegradation	Not available.
Special Remarks on the Products of Biodegradation	Not available.

Section 13. Disposal Considerations

Waste Information	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Waste Stream	Not available.

Section 14. Transport Information

**DOT (U.S.A)
(Pictograms)**



TDG Classification TDG Class 3: Flammable liquid.



PIN UN, Proper Shipping Name, PG 1993 Flammable liquid n.o.s.
(For Shipment By Air)
(This product is not regulated under the US DOT HMR in quantities less than 119 Gallons)

Maritime Transportation Not available.

Special Provisions for Transport Not applicable.

Section 15. Other Regulatory Information and Pictograms

WHMIS (Classification) WHMIS CLASS D-2: Material causing other toxic effects. WHMIS Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).



Regulatory Lists No products were found.

Other Regulations Not available. or of its ingredients

Other Classifications

HCS (U.S.A.) Class: Irritating substance.
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USA Regulatory Lists

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Propylene Glycol NButyl Ether: fire, immediate health hazard, delayed health hazard
SARA 313 toxic chemical notification and release reporting: 2-Propoxyethanol

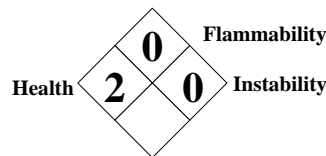
DSD (EEC) This product is not classified according to the EU regulations.

International Regulations Lists No products were found.

Hazardous Material Information System (U.S.A.)

Health	*	2
Flammability		0
Physical Hazard		0

National Fire Protection Association (U.S.A.)



The Hazard Ranking systems presented on this MSDS provide only a quick reference for hazard information. The ENTIRE MSDS must be consulted to determine any specific hazards, First Aid measures, and PPE associated with this product.

Section 16. Other Information

Validated by CRushton on 3/2/2007.

Verified by CRushton.

Printed 3/23/2007.

Information Contact Betco Corporation
1001 Brown Avenue
Toledo, Ohio 43607

Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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