# **Material Safety Data Sheet**



Green Earth Daily Floor Cleaner

# 1. Product and company identification

Product name : Green Earth Daily Floor Cleaner

Supplier : Betco Corporation

1001 Brown Avenue Toledo, Ohio 43607 (800) 333-2156

**Manufacturer** : Betco Corporation

1001 Brown Avenue Toledo, Ohio 43607

Code : 536 MSDS# : 536

 Validation date
 : 10/3/2012.

 Print date
 : 10/3/2012.

In case of emergency : Chemtrec (800) 424-9300

Product type : Liquid.

### 2. Hazards identification

### **Emergency overview**

Physical state : Liquid.

Color : Clear. Yellow.
Odor : Characteristic.
Signal word : CAUTION!

Hazard statements : MAY BE HARMFUL IF SWALLOWED. MAY CAUSE EYE AND SKIN IRRITATION.
 Precautionary measures : Do not ingest. Avoid contact with eyes, skin and clothing. Wash thoroughly after

handling.

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Routes of entry : Dermal contact. Eye contact. Ingestion.

Potential acute health effects

**Inhalation**: No known significant effects or critical hazards.

Ingestion : Harmful if swallowed.

Skin : Moderately irritating to the skin.

Eyes : Moderately irritating to eyes.

### Potential chronic health effects

Chronic effects
 : No known significant effects or critical hazards.
 Carcinogenicity
 : No known significant effects or critical hazards.
 Mutagenicity
 : No known significant effects or critical hazards.
 Teratogenicity
 : No known significant effects or critical hazards.
 Developmental effects
 : No known significant effects or critical hazards.
 Fertility effects
 : No known significant effects or critical hazards.

Medical conditions : None known.

aggravated by over-

exposure

See toxicological information (Section 11)

# 3. Composition/information on ingredients

Name	CAS number	%
Alkyl(C9-11) alcohol, ethoxylated	68439-46-3	5 - 10
propane-1,2-diol	57-55-6	1 - 5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### 4. First aid measures

Eye contact Check for and remove any contact lenses. Immediately flush eyes with plenty of water

for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately. In case of contact with eyes, rinse immediately with plenty of

water.

**Skin contact** In case of contact, immediately flush skin with plenty of water for at least 15 minutes

while removing contaminated clothing and shoes. Wash clothing before reuse. Clean

shoes thoroughly before reuse. Get medical attention immediately.

**Inhalation**Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention

immediately.

**Ingestion** Wash out mouth with water. Do not induce vomiting unless directed to do so by medical

personnel. Never give anything by mouth to an unconscious person. Get medical

attention immediately.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training. It may

be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Notes to physician : No specific treatment. Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

## 5. Fire-fighting measures

**Flammability of the product**: In a fire or if heated, a pressure increase will occur and the container may burst.

**Extinguishing media** 

**Suitable**: Use an extinguishing agent suitable for the surrounding fire.

Not suitable : None known.

**Special exposure hazards**: Promptly isolate the scene by removing all persons from the vicinity of the incident if

there is a fire. No action shall be taken involving any personal risk or without suitable

training.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide sulfur oxides metal oxide/oxides

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing

apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental release measures

**Personal precautions** 

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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### 6. Accidental release measures

### Methods for cleaning up

### **Small spill**

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

### Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

# 7. Handling and storage

### Handling

: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

### **Storage**

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# 8. Exposure controls/personal protection

Ingredient	Exposure limits		
propane-1,2-diol	AIHA WEEL (United States, 5/2010). TWA: 10 mg/m³ 8 hour(s).		

# Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

#### **Engineering measures**

: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

#### **Hygiene measures**

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

# Personal protection Respiratory

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

# 8. Exposure controls/personal protection

**Hands** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eyes

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: safety glasses

Skin

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Environmental exposure** controls

re

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Personal protective equipment (Pictograms)



# 9. Physical and chemical properties

Physical state : Liquid.

Flash point : Closed cup: >150°C (>302°F)

Color : Clear. Yellow.
Odor : Characteristic.
pH : 6.5 to 8.5
Relative density : 1.06

**Dispersibility properties** 

: Easily soluble in the following materials: cold water and hot water.

: Easily dispersible in the following materials: cold water and hot water.

10. Stability and reactivity

Chemical stability
Conditions to avoid

: The product is stable.: No specific data.

Incompatible materials

Hazardous decomposition

: No specific data.

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Possibility of hazardous

: Under normal conditions of storage and use, hazardous reactions will not occur.

reactions

**Solubility** 

# 11. Toxicological information

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Alkyl(C9-11) alcohol, ethoxylated	LD50 Dermal	Rabbit	>2 g/kg	-
propane-1,2-diol	LD50 Oral LD50 Dermal LD50 Oral	Rat Rabbit Rat	1378 mg/kg 20800 mg/kg 20 g/kg	- - -

Conclusion/Summary

: Not available.

**Chronic toxicity** 

**Conclusion/Summary**: Not available.

# 11. Toxicological information

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
propane-1,2-diol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	100 milligrams	-
	Skin - Moderate irritant	Child	-	96 hours 30 Percent continuous	-
	Skin - Mild irritant	Human	-	168 hours 500 milligrams	-
	Skin - Moderate irritant	Human	-	72 hours 104 milligrams Intermittent	-
	Skin - Mild irritant	Woman	-	96 hours 30 Percent	1

**Conclusion/Summary** 

: Not available.

**Sensitizer** 

Conclusion/Summary

Conclusion/Summary

: Not available.

**Carcinogenicity** 

**Conclusion/Summary** 

: Not available.

**Mutagenicity** 

**Conclusion/Summary** 

: Not available.

**Teratogenicity** 

**Conclusion/Summary** 

: Not available.

**Reproductive toxicity** 

**Conclusion/Summary**: Not available.

# 12. Ecological information

**Ecotoxicity** 

: No known significant effects or critical hazards.

### **Aquatic ecotoxicity**

Product/ingredient name	Result	Species	Exposure
Alkyl(C9-11) alcohol, ethoxylated	Acute EC50 2686 ug/L Fresh water	Daphnia - Daphnia magna - Neonate - <24 hours	48 hours
-	Acute LC50 8500 ug/L Fresh water	Fish - Pimephales promelas	96 hours
propane-1,2-diol	Acute EC50 >1000 mg/L Fresh water	Daphnia - Daphnia magna - <24 hours	48 hours
	Acute LC50 1020000 ug/L Fresh water	Crustaceans - Ceriodaphnia dubia - <=24 hours	48 hours
	Acute LC50 710000 ug/L Fresh water	Fish - Pimephales promelas - <=7 days	96 hours

Conclusion/Summary

Persistence/degradability

: Not available.

**Conclusion/Summary**: Not available.

# 13. Disposal considerations

### Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

# 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-
Mexico Classification	Not regulated.	-	-	-		-
ADR/RID Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

PG\*: Packing group

## 15. Regulatory information

**HCS Classification** 

Irritating material

U.S. Federal regulations

TSCA 8(a) IUR Exempt/Partial exemption: Not determined United States inventory (TSCA 8b): Not determined.

SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: propane-1,2-diol

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: propane-1,2-diol: Immediate (acute) health hazard, Delayed (chronic) health hazard

Clean Water Act (CWA) 311: Formaldehyde

Clean Air Act Section 112(b) Hazardous Air **Pollutants (HAPs)** 

Not listed

Clean Air Act Section 602

: Not listed

Class I Substances

Green Earth Daily Floor Cleaner

# 15. Regulatory information

Clean Air Act Section 602

**Class II Substances** 

: Not listed

DEA List I Chemicals

: Not listed

(Precursor Chemicals)

**DEA List II Chemicals** (Essential Chemicals)

: Not listed

State regulations

Massachusetts: None of the components are listed.New York: None of the components are listed.

New Jersey : The following components are listed: PROPYLENE GLYCOL; 1,2-PROPANEDIOL

Pennsylvania: The following components are listed: 1,2-PROPANEDIOL

California Prop. 65

WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

Ingredient name	Cancer	Reproductive		Maximum acceptable dosage level
Formaldehyde	Yes.	No.	Yes.	No.

Canada inventory : Not determined.

International regulations

International lists : Australia inventory (AICS): Not determined.

China inventory (IECSC): Not determined.

**Japan inventory**: All components are listed or exempted. **Korea inventory**: All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Philippines inventory (PICCS): Not determined.

Chemical Weapons

**Convention List Schedule I** 

**Chemicals** 

Not listed

Chemical Weapons

**Convention List Schedule** 

**II Chemicals** 

: Not listed

Chemical Weapons
Convention List Schedule

**III Chemicals** 

: Not listed

## 16. Other information

Label requirements

: MAY BE HARMFUL IF SWALLOWED. MAY CAUSE EYE AND SKIN IRRITATION.

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



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

Green Earth Daily Floor Cleaner

### 16. Other information

The customer is responsible for determining the PPE code for this material.

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



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Prepared by : Not available.

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