# **Material Safety Data Sheet**



Green Earth Peroxide Cleaner

# 1. Product and company identification

Product name : Green Earth Peroxide Cleaner

Supplier : Betco Corporation

1001 Brown Avenue Toledo, OH 43607 www.betco.com 888-462-3826

Synonym : Not available.

Trade name : Not available.

Material uses : Special: Cleaner.

Manufacturer : Betco Corporation

1001 Brown Avenue Toledo, Ohio 43607 www.betco.com 888-462-3826

 Code
 : 336

 MSDS #
 : 336

 Validation date
 : 3/11/2016

 Print date
 : 3/11/2016

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

Product type : Liquid.

## 2. Hazards identification

### **Emergency overview**

Physical state : Liquid.

Color : Colorless. Clear.

Odor : Minty. Fragrance Added.

Signal word : WARNING!

Hazard statements : CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION. CONTAINS MATERIAL

THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

**Precautionary measures**: Do not breathe vapor or mist. Do not eat, drink or smoke when using this product.

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

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

Potential acute health effects

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

**Skin** : Slightly irritating to the skin.

**Eyes**: Severely irritating to eyes. Risk of serious damage to eyes.

Potential chronic health effects

**Chronic effects** : Contains material that may cause target organ damage, based on animal data.

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.

: No known significant effects or critical hazards.

### 2. Hazards identification

**Target organs** 

: Contains material which may cause damage to the following organs: blood, lungs, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

### **Over-exposure signs/symptoms**

Inhalation: Not determined.Ingestion: Not determined.

Skin : Adverse symptoms may include the following:

irritation redness

Eyes : Adverse symptoms may include the following:

pain or irritation watering redness

Medical conditions aggravated by overexposure : Pre-existing disorders involving any target organs mentioned in this MSDS as being at

risk may be aggravated by over-exposure to this product.

See toxicological information (Section 11)

# 3. Composition/information on ingredients

Name	CAS number	%
1-methoxy-2-propanol	107-98-2	5 - 10
hydrogen peroxide	7722-84-1	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

**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.

Special remarks on fire hazards

: Not available.

Special remarks on explosion hazards

: Not available.

## 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).

### 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.

# 7. Handling and storage

### **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

Occupational exposure limits		TWA (8 hours)		STEL (15 mins)		Ceiling					
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
1-methoxy-2-propanol hydrogen peroxide	US ACGIH 4/2014 AB 4/2009 BC 4/2014 ON 1/2013 QC 1/2014 US ACGIH 4/2014 AB 4/2009 BC 4/2014 ON 1/2013	50 100 50 100 100 1 1 1	184 369 - 369 369 1.4 1.4	- - - - - -	100 150 75 150 150 - -	369 553 - 553 553 - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	[3]
	QC 1/2014	1	1.4	-	-	-	-	-	-	-	

[3]Skin sensitization

### Consult local authorities for acceptable exposure limits.

# 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. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **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. Ensure that eyewash stations and safety showers are close to the workstation location if required by employer exposure assessment or workplace safety regulations.

#### **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.

# 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.

### 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. 1 - 4 hours (breakthrough time): butyl rubber, natural rubber (latex)

# 8. Exposure controls/personal protection

**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. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. Recommended: splash goggles

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

: 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.

Other protection **Personal protective** equipment (Pictograms) Not available.



# 9. Physical and chemical properties

**Physical state** : Liquid.

Closed cup: >120°C (>248°F) [Product does not sustain combustion.] Flash point

: Not applicable. **Burning time Burning rate** Not applicable. : Not available. **Auto-ignition temperature** : Not available. Flammable limits Color : Colorless. Clear.

Odor : Minty. Fragrance Added.

**Taste** Not available. Molecular weight : Not applicable. Molecular formula : Not applicable.

: 6.5 to 7

**Boiling/condensation point** : Not available. **Melting/freezing point** : Not available. **Critical temperature** : Not available.

: 1.0086 Relative density

: Not available. Vapor pressure Vapor density : Not available. **Volatility** : Not available. : Not available. **Odor threshold Evaporation rate** : Not available. **SADT** : Not available. : Not available. **Viscosity lonicity (in water)** : Not available.

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

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

Physical/chemical : Not available. properties comments

### Green Earth Peroxide Cleaner

# 10. Stability and reactivity

**Chemical stability** : The product is stable.

No specific data. **Conditions to avoid Incompatible materials** : No specific data.

**Hazardous decomposition** products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

**Possibility of hazardous** 

reactions

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

# 11. Toxicological information

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
1-methoxy-2-propanol	LD50 Dermal LD50 Oral		13 g/kg 6600 mg/kg	-

**Conclusion/Summary** 

: Not available.

**Chronic toxicity** 

Not available.

**Conclusion/Summary** 

: Not available.

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
1-methoxy-2-propanol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Skin - Mild irritant	Rabbit	-	milligrams 500 milligrams	-
hydrogen peroxide	Eyes - Severe irritant	Rabbit	_	1 milligrams	-

**Conclusion/Summary** 

: Not available.

**Sensitizer** 

Not available.

**Conclusion/Summary** 

: Not available.

Carcinogenicity

Not available.

**Conclusion/Summary** 

: Not available.

### Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
1-methoxy-2-propanol	A4	-	-	-	-	_
hydrogen peroxide	A3	3	-	-	-	-

### **Mutagenicity**

Not available.

**Conclusion/Summary** 

: Not available.

**Teratogenicity** 

Not available.

**Conclusion/Summary** 

: Not available.

Reproductive toxicity

Not available.

**Conclusion/Summary** : Not available. Green Earth Peroxide Cleaner

# 11. Toxicological information

Synergistic products : Not available.

## 12. Ecological information

**Ecotoxicity** 

: No known significant effects or critical hazards.

### **Aquatic ecotoxicity**

Product/ingredient name	Result	Species	Exposure
hydrogen peroxide	Acute EC50 1.2 mg/l Marine water	Algae - Dunaliella tertiolecta - Exponential growth phase	72 hours
	Acute EC50 5.38 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 2320 μg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 22 ppm Fresh water	Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 989.7 ppm Fresh water	Fish - Oncorhynchus tshawytscha - Egg	43 days

**Conclusion/Summary** 

: Not available.

Persistence/degradability

Not available.

**Conclusion/Summary** 

Partition coefficient: n-

octanol/water

: Not available.

: Not available.

**Bioconcentration factor** 

**Mobility** Toxicity of the products of

biodegradation

: Not available. : Not available.

: Not available.

Other adverse effects : No known significant effects or critical hazards.

# 13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. 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.

Waste stream : Not available. **RCRA** classification : Not available.

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

**United States inventory** 

(TSCA 8b)

Not determined.

WHMIS (Canada)

: Class D-2B: Material causing other toxic effects (Toxic).

**Canadian lists** 

**Canadian NPRI** : None of the components are listed. **CEPA Toxic substances** : None of the components are listed.

**Canada inventory** : Not determined.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

### **International regulations**

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

> China inventory (IECSC): Not determined. Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.

Korea inventory: Not determined.

Malaysia Inventory (EHS Register): Not determined.

New Zealand Inventory of Chemicals (NZIoC): Not determined.

Philippines inventory (PICCS): Not determined.

Taiwan Chemical Substances Inventory (TCSI): Not determined.

Turkey inventory: Not determined.

**Chemical Weapons Convention List Schedule** 

**I Chemicals** 

: Not listed

**Chemical Weapons** 

**Convention List Schedule** 

: Not listed

II Chemicals

**Chemical Weapons** 

**Convention List Schedule** 

**III Chemicals** 

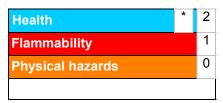
: Not listed

### 16. Other information

Label requirements

: CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

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.

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

References : Not available.

Other special : Not available.

considerations

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Prepared by : Not available.

Indicates information that has changed from previously issued version.

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