# **SAFETY DATA SHEET**



### Green Earth Velocity

Section 1. Identif	fication
GHS product identifier	: Green Earth Velocity
Other means of identification	: Not available.
Product type	: Liquid.
Relevant identified uses of Not applicable.	f the substance or mixture and uses advised against
Supplier's details	: Betco Corporation 400 Van Camp Road Toledo, Ohio 43402 www.betco.com 888-462-3826
Emergency telephone number (with hours of operation)	: Chemtrec (800) 424-9300 24 hour
Section 2. Hazar	ds identification
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: EYE IRRITATION - Category 2A
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	: Causes serious eye irritation.
Precautionary statements	
Prevention	: Wear eye or face protection: Recommended: safety glasses. Wash hands thoroughly after handling.
Response	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention
Storage	: Not applicable.
Disposal	: Not applicable.
Hazards not otherwise classified	: None known.

### Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

CAS number/other identifie	ers				
CAS number	: Not applicable.				
Product code	: 197				
Date of issue/Date of revision	: 4/4/2017 Date of	previous issue : 4/30/2015	Version	: 2.01	1/11

## Section 3. Composition/information on ingredients

	-	
Ingredient name	%	CAS number
1-phenoxypropan-2-ol	≥10 - <25	770-35-4
sodium dodecylbenzenesulfonate	≥5 - <10	25155-30-0
[2-(2-methoxymethylethoxy)methylethoxy]propanol	≥5 - <10	25498-49-1
3-butoxypropan-2-ol	≥5 - <10	5131-66-8
1-(1-methyl-2-propoxyethoxy)propan-2-ol	≥3 - <5	29911-27-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

#### Description of necessary first aid measures

Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.</li> </ul>
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	<ul> <li>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.</li> </ul>
Ingestion	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symp	toms/effects, acute and delayed
Potential acute heal	th effects
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Over-exposure sign	s/symptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
Indication of immedia	ate medical attention and special treatment needed, if necessary
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## Section 4. First aid measures

Specific treatments

**Protection of first-aiders** 

: No specific treatment.

: 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.

#### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides metal oxide/oxides
Special protective actions for fire-fighters	: 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.
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.

## Section 6. Accidental release measures

Personal precautions, protect	tive equipment and emergency procedures
For non-emergency personnel	: 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.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
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 and materials for co	ntainment and 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.

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## Section 7. Handling and storage

Precautions for safe handling	L
Protective measures	: Put on appropriate personal protective equipment (see Section 8). 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.
Advice on general occupational hygiene	: 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. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: 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.

## Section 8. Exposure controls/personal protection

Control parameters							
Occupational exposure lin	<u>nits</u>						
None.							
Appropriate engineering controls	:	Good gene contamina		d be sufficient to control v	worker exposure	to airborne	÷
Environmental exposure controls	:	they comp cases, fur	y with the requirements of the scrubbers, filters of	ork process equipment s ents of environmental pro or engineering modification issions to acceptable lev	tection legislatio	n. In some	:
Individual protection meas	<u>ures</u>						
Hygiene measures	:	eating, sm Appropriat Wash conf	oking and using the e techniques should	e thoroughly after handlin lavatory and at the end o be used to remove poter efore reusing. Ensure that tation location.	f the working pe ntially contamina	riod. ted clothing	<b>]</b> .
Eye/face protection	:	assessmen gases or d the assess	nt indicates this is ne usts. If contact is po	an approved standard sl cessary to avoid exposu ossible, the following prot her degree of protection:	re to liquid splas ection should be	hes, mists, worn, unle	
Skin protection							
Hand protection	:	worn at all necessary during use noted that glove man protection	times when handling Considering the pa that the gloves are the time to breakthrous ufacturers. In the ca	gloves complying with a g chemical products if a r rameters specified by the still retaining their protect ough for any glove materi se of mixtures, consisting annot be accurately estim	isk assessment e glove manufac ive properties. I al may be differ g of several sub	indicates th turer, check t should be ent for differ stances, the	nis is k rent e
Body protection	:		and the risks involve	for the body should be seed and should be approve			eing
Other skin protection		based on t		additional skin protection med and the risks involve product.			
Date of issue/Date of revision		: 4/4/2017	Date of previous iss	ue : 4/30/2015	Version	: 2.01	4/11

## Section 8. Exposure controls/personal protection

Resp	iratory	protection
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: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Personal protective equipment (Pictograms)



## Section 9. Physical and chemical properties

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<u>Appearance</u>	
Physical state	: Liquid.
Color	: Clear. Orange.
Odor	: Ether-like.
Odor threshold	: Not available.
рН	: 7 to 8.5
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Closed cup: >150°C (>302°F)
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1.0126
Solubility	: Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.

## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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## Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
1-phenoxypropan-2-ol	LD50 Oral	Rat	2830 mg/kg	-
sodium	LC50 Inhalation Dusts and mists	Rat	310 mg/m³	4 hours
dodecylbenzenesulfonate				
	LD50 Oral	Rat	438 mg/kg	-
[2-(2-methoxymethylethoxy) methylethoxy]	LD50 Oral	Rat	3200 mg/kg	-
3-butoxypropan-2-ol	LD50 Dermal	Rabbit	3100 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
sodium dodecylbenzenesulfonate	Eyes - Severe irritant Eyes - Severe irritant Skin - Moderate irritant	Rabbit Rabbit Rabbit		24 hours 250 Micrograms 1 Percent 24 hours 20 milligrams	- - -

#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

### Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure) Not available.

#### **Aspiration hazard**

Not available.

## Information on the likely : Routes of entry anticipated: Oral, Dermal, Inhalation. routes of exposure

#### Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.

## Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.

## Section 11. Toxicological information

Skin contact       : No specific data.         Ingestion       : No specific data.	<u>long term exposure</u>
	<u>long term exposure</u>
Delayed and immediate offects and also obverig offects from about and	<u>long term exposure</u>
Deleved and immediate offects and also obverig offects from about and	<u>long term exposure</u>
Delayed and immediate effects and also chronic effects from short and	
Short term exposure	
Potential immediate : Not available. effects	
Potential delayed effects : Not available.	
Long term exposure	
Potential immediate : Not available. effects	
Potential delayed effects : Not available.	
Potential chronic health effects	
Not available.	
General : No known significant effects or critical haz	ards.
Carcinogenicity : No known significant effects or critical haz	ards.
Mutagenicity : No known significant effects or critical haz	ards.
Teratogenicity : No known significant effects or critical haz	ards.
Developmental effects : No known significant effects or critical haz	ards.
Fertility effects : No known significant effects or critical haz	ards.

#### Numerical measures of toxicity

Acute toxicity estimates

Not available.

## Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
sodium dodecylbenzenesulfonate	Acute EC50 29000 µg/l Fresh water	Algae - Chlorella pyrenoidosa - Exponential growth phase	96 hours
	Acute EC50 7.81 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute EC50 0.15 ppm Fresh water Acute IC50 112.4 mg/l	Daphnia - Daphnia pulex Algae - Pseudokirchneriella subcapitata - Exponential growth phase	48 hours 72 hours
	Acute LC50 1.18 ppm Fresh water	Fish - Lepomis macrochirus	96 hours

#### Persistence and degradability

Not available.

**Bioaccumulative potential** 

## Section 12. Ecological information

	-		
Product/ingredient name	LogPow	BCF	Potential
1-phenoxypropan-2-ol	1.41	-	low
sodium	1.96	-	low
dodecylbenzenesulfonate			
[2-(2-methoxymethylethoxy)	0.309	-	low
methylethoxy]propanol			
3-butoxypropan-2-ol	1.2	-	low
1-(1-methyl-2-propoxyethoxy)	0.88	-	low
propan-2-ol			

#### **Mobility in soil**

Soil/water partition	: Not available.
coefficient (Koc)	

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

### Section 13. Disposal considerations

**Disposal methods** : 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.

### Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-	-
Packing group	-	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.	No.
Additional information	Reportable quantity 12048.2 lbs / 5469.9 kg [1427 gal / 5401.8 L] Package sizes shipped in quantities less than the product	-	-	-	-	-

Green Earth Velocity			
Section 14. Transpor	t information		
reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.			

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to Annex II of MARPOL and the IBC Code

## Section 15. Regulatory information

U.S. Federal regulations	: TSCA 8(a) PAIR: 1-phenoxypropan-2-ol
	TSCA 8(a) CDR Exempt/Partial exemption: Not determined
	Not determined.
	Clean Water Act (CWA) 311: sodium dodecylbenzenesulfonate
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed
<u>SARA 302/304</u>	
Composition/information	on ingredients
No products were found.	
SARA 304 RQ	: Not applicable.
<u>SARA 311/312</u>	
Classification	: Immediate (acute) health hazard

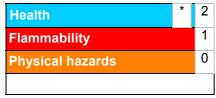
#### **Composition/information on ingredients**

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
1-phenoxypropan-2-ol	≥10 - <25	No.	No.	No.	Yes.	No.
sodium	≥5 - <10	No.	No.	No.	Yes.	No.
dodecylbenzenesulfonate						
[2-(2-methoxymethylethoxy) methylethoxy]propanol	≥5 - <10	No.	No.	No.	Yes.	No.
3-butoxypropan-2-ol	≥5 - <10	Yes.	No.	No.	Yes.	No.
1-(1-methyl-2-propoxyethoxy) propan-2-ol	≥3 - <5	Yes.	No.	No.	Yes.	No.

## Section 15. Regulatory information

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State regulations	
Massachusetts	: The following components are listed: SODIUM DODECYLBENZENE SULFONATE
New York	<ul> <li>The following components are listed: Sodium dodecylbenzene sulfonate; Dodecylbenzene sulfonate</li> </ul>
New Jersey	<ul> <li>The following components are listed: SODIUM DODECYLBENZENE SULFONATE; BENZENESULFONIC ACID, DODECYL-, SODIUM SALT</li> </ul>
Pennsylvania	<ul> <li>The following components are listed: BENZENESULFONIC ACID, DODECYL-, SODIUM SALT</li> </ul>
International regulations	
Chemical Weapon Conv	ention List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol (Anne Not listed.	exes A, B, C, E)
Stockholm Convention Not listed.	on Persistent Organic Pollutants
Rotterdam Convention of Not listed.	on Prior Inform Consent (PIC)
<b>UNECE Aarhus Protoco</b>	l on POPs and Heavy Metals
Not listed.	
International lists	
National inventory	
Australia	: Not determined.
Canada	: Not determined.
China	: All components are listed or exempted.
Europe	: Not determined.
Japan	: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	: Not determined.
New Zealand	: All components are listed or exempted.
Philippines	: All components are listed or exempted.
Republic of Korea	: Not determined.
Taiwan	: All components are listed or exempted.
Section 16. Othe	er information

#### 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 SDSs 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.

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

## Section 16. Other information



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### Procedure used to derive the classification

Classification		Justification			
Eye Irrit. 2A, H319		Expert judgment			
History					
Date of printing	: 4/24/2017				
Date of issue/Date of revision	: 4/4/2017				
Date of previous issue	: 4/30/2015				
Version	: 2.01				
Key to abbreviations	BCF = Bioconcentration F GHS = Globally Harmoniz IATA = International Air T IBC = International Mar IMDG = International Mar LogPow = logarithm of the MARPOL = International	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations			
References	: Not available.				

Indicates information that has changed from previously issued version.

#### 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.