



MATERIAL SAFETY DATA SHEET

Part Number(s):

Product Name: EcoStar Evacuation System Cleaner

ESC-16
ESC-32

Release Date:
May 1, 2014

1. Products and Company Identification

Product Name EcoStar Evacuations System Cleaner	MSDS Code Number Refer to part number
Trade Name & Synonyms: EcoStar Evacuation System Cleaner	Last Revision: January 30, 2014
Chemical Name: no name assigned to mixture	Manufactured for: Bio-Pure Products, Inc., Minden Nevada
C.A.S. Number Citric Acid 77-92-9 <2%, Sodium Benzoate 532-32-1 <2%, Sodium Propionate 137-40-6 <2%, Guar Gum 9000-30-0 <2%, Xanthan Gum 137-40-6 <2%, Microorganisma, Class 1 Biosafety n/a <2%, Water 7732-18-5 Balance	Address P.O. Box 2230 Minden, NV 89423 www.biopureproducts.com
Grades or Minor Variant Identities: None	Information Telephone Number: 1.775.340.7303
Product Use (for Canada): Cleaning material for control of organic waste	Emergency Telephone Number: 1.888.596.6546

2. Composition of Ingredients

Hazardous Components	C.A.S. Number	Exposure Limits	%
Hydrated Silicon Dioxide	7631-86-9		<1

3. Hazard Identification

Emergency Overview: The liquid is EPA GRAS listed and generally regarded as safe.

Routes of Exposure	Signs and Symptoms	Single, Repeated or Lifetime Exposure	Severity (Mild, Moderate, Severe)	Acute and Chronic Health Effect(s)	Target Organ(s)
Eye	Irritation, redness and pain	Single	Mild	N/E	N/E
Skin	Iritation on prolonged contact	Single	Mild	N/E	N/E
Inhalation	N/E	Single	Mild	N/E	N/E
Ingestion	Gastrointestinal disturbance	Single	Mild	N/E	N/E
Other	-	-	-	-	-

Medical Conditions Aggravated by Exposure: Respiratory, skin conditions or eye conditions.
Carcinogenicity (IARC, NTP): None
Potential Environmental Effects: None

4. First Aid Measures

Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed Effects
Eye	Flush eyes with plenty of water.	N/E	N/E
Skin	Wash with plenty of soapy water.	N/E	N/E
Inhalation	Move individual into fresh air.	N/E	N/E
Ingestion	If ingestion occurs, flush mouth with water, give person several glasses of water.	N/E	N/E
Other	-	-	-

Note to Physicians (Treatment, Testing and Monitoring)

5. Fire and Explosion

Flashpoint & Method: N/A	Flammable (Explosive) - N/A	Autoignition Temperature - N/A	Other: None
Flame Propagation or Burning Rate (for solids): N/E	Properties Contributing to Fire Intensity: N/E	Flammability Classification Health-0, Flammability-0, Reactivity-0 Contact Rating: 0	
Extinguishing Media: Water spray, foam, carbon dioxide or dry chemical.			Extinguishing Media to Avoid: None



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Protection and Procedures for Firefighters: Usual. Material will be in general fire. Avoid inhalation of smoke.
Unusual Fire and Explosion Hazards: None

6. Accidental Release Measures

Containment Techniques: Discard in trash or pour down drain
Spill/Leak Clean-Up Procedures and Equipment: Wipe up with towels. Caution- solution may be slippery. Discard in trash. Dispose of container and unused contents in accordance with federal, state and local requirements.
Evacuation Procedures: None
Special Instructions: None
Reporting Requirements: None

7. Handling and Storage

Handling Practices and Warnings: Trained personnel use this product.
Store out of direct sunlight and away from sources of ignition. Store in ventilated, dry location.

8. Exposure Control/Personal Protection

Ventilation: Use in a well-ventilated area.		Other Engineering Controls: None
Routes of Entry:	Personal Protective Equipment (PPE) for Normal Use:	PPE for Emergencies:
Eye/Face	Wear goggles, safety glasses or a face shield.	Wear safety glasses.
Skin	Wear latex or nitrile gloves. Wear impervious protective clothing, including gloves, lab coat, apron or coveralls, as appropriate to prevent skin contact.	-
Inhalation	Handle the product in a well-ventilated area. Under normal use, respirators are not required.	-
General Hygiene Considerations and Work Practices: Wear gloves as per universal precautions. Wash your hands following use. No eating, drinking or smoking while handling this product.		
Protective Measures During Repair and Maintenance of Contaminated Equipment: If aerosols are generated, a disposable dust/mist respirator (N95) may be used. Personnel wearing respirators should be fit-tested and approved for respirator use under the OSHA Respiratory Protection Standard 29 CFR 1910.134.		
Other Protective Measures and Equipment: None		

9. Physical and Chemical Characteristics

Appearance: Light Brown		Odor: Earthy Smell
Normal Physical State: <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas <input type="checkbox"/> Solid <input type="checkbox"/> _____ (Other)		Boiling Point N/A Melting Point N/A Freezing Point N/A
Specific Gravity or Density (H ₂ O=1): ~1.04	Solubility in Water: YES	pH: ~4-5
Vapor Pressure (mm Hg @ 20°C): N/A	Vapor Density (AIR= 1): N/A	Evaporation Rate (Butyl Acetate = 1): Not known
Other: Completely miscible with water.		

10. Stability and Reactivity Data

Incompatibility (Materials to Avoid): N/E		
Hazardous Products Produced During Decomposition: Decomposition products of the minor components of this compound may include potentially hazardous byproducts including carbon dioxide and carbon monoxide, ammonia or oxides of sulfur or nitrogen.		
Hazardous Polymerization? <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> May Not Occur	Conditions to Avoid: None	
Stability? <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	-	



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11. Toxicological Information

Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic Effects, Reproductive Effects or Structure Activity Data

N/E

12. Ecological Information

Toxicity, Environmental Fate, Physical/Chemical Data or Other Data Supporting Environmental Hazard Statements: N/E

13. Disposal Considerations

Regulations: Dispose of container and unused contents in accordance with federal, state and local requirements.

Properties (Physical/Chemical) Affecting Disposal: N/E

14. Transport Information

Regulated for shipping? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Proper Shipping Name EcoStar eVac Cleaner	Packing Group DOT class-NR
Do changes in quantity, packaging or shipment method change product classification? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Hazard Class: Non-hazardous	Identification Number N/A
Other: None		

15. Regulatory Information

Federal Regulations

EPA GRAS LISTED – Generally regarded as safe.

Not listed on:

Health & Safety reporting list
Chemical Test rule TSCA section
12b SNUR list under TSCA
CERCLA

Clean Water Act Priority or toxic pollutant under the Clean
Water Act Hazardous chemical list of OSHA – N/E

International Regulations

R 36/37/38 Irritating to eyes, skin, respiratory system.
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37/39 Wear suitable gloves and eye/face protection.

Hazard Symbol: N/A

WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR. Australian Hazchem Code: None allocated.

AUSTRALIA: All the components of this material are listed on the Australian Inventory of Chemical Substances (AICS).

CANADA: All the components of this material are on the Canadian Domestic Substance List (DSL).

EUROPEAN UNION: All the components of this material are in compliance with the EU Seventh Amendment Directive 92/32/EEC.

JAPAN: All the components of this product are on the Existing & New Chemical Substance (ENCS) inventory in Japan, or have an exemption from



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KOREA: All the components of this product are on the Existing Chemicals List (ECL) in Korea.
PEOPLES REPUBLIC OF CHINA: All the components of this material are listed on the draft Inventory of Existing Chemical Substances in China.
PHILIPPINES: All the components of this product are listed on the Philippine Inventory of Chemicals and Chemical Substances (PICCS)

Other: None

16. Other Information

This information is based on our present knowledge; however, this shall not constitute a guarantee for specific product features. No toxicity data are available for this specific formulation. This health hazard assessment is based on information that is available for its components.

N/A= not applicable.

N/D= not determined.

N/E= not established.