

# MATERIAL SAFETY DATA SHEET

## ESMS – Manure Digester and Odour Control

### I. GENERAL SUPPLIER INFORMATION

**Product Identifier:** ESMS – Manure Digester and Odour Control.  
**Product Code:** 6640  
**Designation:** NON-HAZ Micronutrient /Biostimulant  
**Application:** Waste Management  
**IHC:** 3402.20.51.00  
**Manufacturer:** Earth Smart Solutions  
**Address:** 120 – 60 Industry Way S.E., Calgary, AB., CA. T3S 0A2  
**Toll Free:** 1-866-444-7174  
**Fax:** 403-264-9606  
**Email:** info@earth-smart-solutions.com

### II. HAZARDOUS INGREDIENTS

**Hazardous Components:** None – GRAS (Generally recognized as safe)

### III. PHYSICAL / CHEMICAL CHARACTERISTICS

**Physical state:** Liquid  
**Odor and appearance:** Brown  
**pH:** 5.5 – 7.0 When diluted in water  
**Evaporation rate (Water = 1):** 10  
**Solubility in water:** 99.9% in water

### IV. FIRE AND EXPLOSION DATA

**Flammable or combustible:** Not flammable or combustible  
**Flash point (deg. C):** None  
**Upper flammable limit:** Not applicable  
**Lower flammable limit:** Not applicable  
**Auto ignition temperature:** Not applicable  
**Flammability classification:** Not applicable  
**Conditions of flammability:** Not applicable  
**Special fire fighting procedures:** None  
**Hazardous combustion products:** None  
**Sensitivity to mechanical impact:** Not sensitive  
**Sensitive to static discharge:** Not sensitive

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### V. REACTIVITY DATA

Stability:	Stable
Conditions of reactivity:	None known
Incompatible substances:	Low pH solutions
Hazardous decomposition products:	None known
Hazardous Polymerization:	Does not occur

### VI. TOXICOLOGICAL PROPERTIES

Primary routes of exposure:	Eye contact and Ingestion
Sensitizer:	Not known to be a sensitizer
Carcinogen:	No – IARC, NTP, OSHA
Mutagen:	Not known to be a mutagen

### VII. HEALTH HAZARDS

<u>Ingestion:</u>	Considered non-toxic but can lead to nausea or diarrhea.
<u>First Aid:</u>	Drink water or milk do not induce vomiting - contact a physician as required
<u>Skin irritation:</u>	Exposure may cause irritation if a person has a history of dermal allergic reaction.
<u>First Aid:</u>	Wash with soap and water

### VIII. PREVENTION MEASURES

Gloves:	No special requirements
Respirator:	No special requirements
Eye protection:	No special requirements
Footwear:	No special requirements
Clothing:	No special requirements
Other:	No special requirements
Engineering controls:	No special requirements
Leak & Spill procedures:	Flush away with water
Waste Disposal:	Flush to sewer
Special shipping information:	NON –HAZ, None required

### IX. STORAGE & HANDLING OF PRODUCT

Storage:	Store in cool, dry conditions away from direct sunlight
Handling:	No special handling required



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### X. COMPLIANCE

Fully complies with EPA Toxic Substance Control Act (TSCA) and the rules, orders and regulations promulgated there under including:

- a) Sections 4, 5, 6 & 7; Title 40 Chapter 1, 707.20 thru 707.75;
- b) 40 CFR Sections 704.3, 710.2(e) and 720.3(c); and
- c) Sections 5 and 13, reference 42FR64583
- d) Does not contain marine pollutants as defined in 49 CFR 171.8

### XI. CONTROL MEASURES

**Waste Disposal:** Small spills can be washed away with water. Large spillages, if contained, can be returned to container. Check with regulators before disposing of large quantities

**Ventilation:** Mechanical (General)

### XII. PREPARATION DATA

**Information sources:** Suppliers MSDSs, DSL, TSCA, EPA, IARC, NTP, OSHA.

**Prepared By:** MSDS Coordinator

**Date:** July 16, 2012 – Last Rev: June 6, 2013

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