

# Material Safety Data Sheet

840006 Rev B – 07/16/07

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**Solidscape Product: Bioact™ VSO**  
**Solidscape Part Numbers: 860026 and 970041**

The attached MSDS for *Bioact™ VSO Cleaner* provides the material safety data for the Solidscape Bioact™ VSO products, Solidscape PN 860026 and 970041. Solidscape Bioact™ VSO is manufactured by Petroferm Inc. under the product name *Bioact™ VSO Cleaner*.

# MATERIAL SAFETY DATA SHEET

## PETROFERM INC.

Lambent Technologies Plant  
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**CHEMTREC 24-HOUR EMERGENCY RESPONSE**  
**TOLL FREE NUMBER: (800) 424-9300**  
**INTERNATIONAL CALLS: COLLECT (703) 527-3887**  
CHEMTREC should only be contacted in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals.

### 1. PRODUCT NAME

BIOACT<sup>®</sup> VSO Cleaner

### 2. HAZARDOUS INGREDIENTS

None applicable

### 3. HAZARDS IDENTIFICATION

#### SYMPTOMS/EFFECTS OF OVEREXPOSURE

**Inhalation:** High vapor concentration may cause headaches and stupor.  
**Ingestion:** Low order of toxicity. May cause irritation of the stomach and intestines resulting in nausea and vomiting.  
**Skin:** Repeated or prolonged contact with skin may cause irritation, reddening and dermatitis.  
**Eyes:** Contact with eyes may cause slight irritation.  
**Listed Carcinogens:** None

### 4. FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.  
**Ingestion:** Do not induce vomiting. Seek medical attention.  
**Skin:** Remove contaminated clothing. Thoroughly wash affected area with soap and water; use skin cream if irritation is severe.  
**Eyes:** Immediately flush eyes with water for 15 minutes. Call a physician if irritation persists.

### 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Dry chemical, chemical foam, carbon dioxide. Class BC, ABC fire extinguisher.  
**Special Fire Fighting Procedures:** Self-contained positive pressure breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.  
**Unusual Fire and Explosions Hazard:** None known.

### 6. ACCIDENTAL RELEASE MEASURES

Absorb spill with inert material, then place in chemical waste container. For large spills, dike for later disposal. Observe government regulations.

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**7. HANDLING AND STORAGE**

Store in original container, preferably in a cool, ventilated, fire-resistant building. Avoid overheating or freezing. Avoid open flames and sparks. Since empty containers may retain product residues (vapor, liquid, or solid) all label precautions must be observed.

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**8. EXPOSURE CONTROLS - PERSONAL PROTECTION**

- Respiratory:** Use NIOSH/MSHA approved respirator if ventilation is not sufficient and if mists are generated.
- Ventilation:** If desirable to reduce odor, mechanical (general) ventilation should have an airflow of 55 CFM. Local exhaust can also be effective in minimizing odor.
- Clothing/Glove:** Chemically resistant gloves should be used with all industrial chemicals.
- Eye Protection:** Safety glasses/goggles are recommended. Provide eye bath near work site.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Boiling Point</b> (760 mm Hg):	464°-505°F (240°-263°C)	<b>Vapor Density</b> (Air = 1):	> 1
<b>% Volatile</b> (By Weight):	Not determined	<b>Evaporation Rate</b> (BUAC = 1):	< 1
<b>Specific Gravity</b> (H <sub>2</sub> O = 1):	0.82 @ 77°F (25°C)	<b>Solubility in Water:</b>	Insoluble
<b>Vapor Pressure</b> (20°C):	0.1 mm Hg	<b>Appearance and Odor:</b>	Water-white to light yellow liquid with a mild hydrocarbon odor
<b>Flash Point:</b>	215°F (102°C) (ASTM D93-85, Pensky-Martens Closed Cup)	<b>Flammable Limits</b> (% By Volume in Air):	LEL: 0.5 UEL: 4.7

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**10. STABILITY AND REACTIVITY**

- Stability:** BIOACT VSO is stable.
- Conditions to Avoid:** Temperatures above 464°F (240°C).
- Incompatibility:** Strong oxidizing agents, strong acids, strong bases.
- Hazardous Decomposition Products:** None, other than normal products of combustion.
- Hazardous Polymerization:** Will not occur.

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**11. TOXICOLOGICAL INFORMATION**

Not available.

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**12. ECOLOGICAL INFORMATION**

Not available.

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**13. DISPOSAL CONSIDERATIONS**

Waste treat or incinerate used material in compliance with all applicable government regulations.

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**14. TRANSPORT INFORMATION**

Non-regulated.

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## 15. REGULATORY INFORMATION

None of the components of BIOACT VSO appears on any of the EPA's lists of toxic or hazardous substances, or on the SARA 313 toxic chemicals list (40 CFR 372.65).

None of the components of this product is listed in California's Safe Drinking Water and Toxic Enforcement Act of 1986 – Proposition 65 as a chemical known to cause cancer, birth defects, or other reproductive harm.

Canadian WHMIS Classification: This product is not a controlled product.

All the components of this product are listed on the TSCA inventory.

None of the components of this product is listed in the Threshold Limit Values and Biological Exposure Indices compiled by the American Conference of Governmental Industrial Hygienists.

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## 16. OTHER INFORMATION

NFPA Codes: Health: 1 Fire: 1 Reactivity: 0

We believe that the information contained herein is current as of the date of this Material Safety Data Sheet. Since the use of this information and of these opinions and the conditions of use of the product are not within the control of Petroferm Inc., it is the user's obligation to determine the conditions of safe use of the product.