

# MATERIAL SAFETY DATA SHEET

Date: 4/26/2010  
Replaces: 6/01/2006

## 1. PRODUCT AND SUPPLIER IDENTIFICATION

**Product Name:** BIOACT 105 Precision Cleaner  
**Supplier:** Petroferm Inc.

3938 Porett Drive  
Gurnee, IL 60031  
(847) 244-3410  
[www.petroferm.com](http://www.petroferm.com)

**Emergency Contact:** CHEMTREC EMERGENCY RESPONSE  
US: (800) 424-9300

**INTERNATIONAL:** (703) 527-3887  
CHEMTREC should only be contacted in the event of transportation related chemical emergencies involving a spill, leak, fire, exposure, or accident.

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## 2. HAZARDS IDENTIFICATION

### PHYSICAL HAZARDS

**WARNING:** COMBUSTIBLE LIQUID: avoid open flames, sparks, direct sunlight, and heat sources.

### POTENTIAL HEALTH EFFECTS

**Eyes:** Irritating to eyes.

**Skin:** Irritating to skin, may cause redness and dryness. Prolonged or repeated exposure may cause sensitization.

**Inhalation:** Inhalation of vapors or mist may cause dizziness and headache.

**Ingestion:** If swallowed, may be aspirated and cause lung damage.

**Listed Carcinogens:** No constituents listed as human carcinogens by OSHA, ACGIH, NTP or IARC.

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## 3. COMPOSITION AND INFORMATION ON INGREDIENTS

| Component                 | CAS        | Weight % |
|---------------------------|------------|----------|
| Isoparaffinic hydrocarbon | 64742-48-9 | 20 - 80  |
| 1-Propoxy-2-propanol      | 1569-01-3  | 25 - 45  |
| d-Limonene                | 5989-27-5  | 10 - 25  |

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## 4. FIRST AID MEASURES

**Inhalation:** Remove to fresh air. Seek medical attention if breathing is difficult or if symptoms of over exposure occur.

**Ingestion:** Seek immediate medical attention if swallowed. DO NOT induce vomiting.

**Eyes:** Irrigate eyes with water for 20 minutes. Seek medical attention if irritation persists.

**Skin:** Remove contaminated clothing. Thoroughly wash affected area with soap and water. Seek medical attention if irritation persists.

**Note to physician:** Small amounts of solvent aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

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**5. FIRE FIGHTING MEASURES**

|                                          |                                                                                                                                    |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Flammability</b>                      | Combustible liquid.                                                                                                                |
| <b>Extinguishing Media</b>               | Dry chemical, chemical foam, carbon dioxide.<br>Class BC, ABC fire extinguisher.                                                   |
| <b>Special Fire Fighting Procedures</b>  | Self-contained positive pressure breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. |
| <b>Unusual Fire and Explosion Hazard</b> | Discarded towels or rags soaked with product may smolder if not properly contained.                                                |

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**6. ACCIDENTAL RELEASE MEASURES**

|                     |                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Small spills</b> | Always wear proper PPE when handling this product.<br>Do not allow product to enter drains or surface water.<br>Absorb with inert material and place in chemical waste container.                                                                                                                                                                                                         |
| <b>Large spills</b> | Always wear proper PPE when responding to a release of hazardous material.<br>Remove all ignition sources from affected area.<br>Contain spilled material, dike affected area to prevent spreading.<br>Do not allow product to enter drains or surface water.<br>Absorb with inert material and contain for disposal.<br>Observe government regulations for disposal of spilled material. |

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**7. HANDLING AND STORAGE**

|                 |                                                                                                                                                                                                                                                                                                                   |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Handling</b> | Always wear proper PPE when transferring and using this product.<br>Avoid contact with skin.<br>Avoid exposure to mist or concentrated vapors.<br>Wash hands and any exposed skin thoroughly after use.<br>Transfer and use in areas that have adequate ventilation.<br>Prevent static discharge during transfer. |
| <b>Storage</b>  | Keep away from heat, sparks, and flame.<br>Keep container tightly sealed to prevent oxidation.<br>Store in original container.<br>Store in a cool ventilated area.                                                                                                                                                |

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**8. EXPOSURE CONTROLS - PERSONAL PROTECTION**

|                               |                                                                                                                                                                                                                                        |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Exposure Guidelines</b>    | None established by OSHA or ACGIH.                                                                                                                                                                                                     |
| <b>Ventilation</b>            | Provide general or local ventilation in work area.                                                                                                                                                                                     |
| <b>Respiratory Protection</b> | Use NIOSH/MSHA approved respirator if ventilation is not sufficient to control vapors.                                                                                                                                                 |
| <b>Clothing/Gloves</b>        | Chemical resistant gloves should be worn while handling this product.<br>Refer to glove manufacturers' compatibility guide when selecting gloves.<br>DO NOT use latex or natural rubber gloves.<br>Provide safety shower in work area. |
| <b>Eye Protection</b>         | Safety glasses should be worn when handling this product.<br>Provide eyewash in work area.                                                                                                                                             |

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**9. PHYSICAL AND CHEMICAL DATA**

|                           |                                          |
|---------------------------|------------------------------------------|
| Physical State @ 20C      | Liquid                                   |
| Color                     | Clear                                    |
| Odor                      | Hydrocarbon/citrus                       |
| Flash Point               | 105°F (41°C) (Pensky-Martens closed cup) |
| Boiling Point             | >300°F (>152°C)                          |
| Flam. Limits, LEL         | 0.7% (published data)                    |
| Flam. Limits, UEL         | 6.1% (published data)                    |
| Specific Gravity/temp     | 0.8 @ 25°C                               |
| Solubility in water       | Partially soluble                        |
| pH                        | Not applicable                           |
| Evaporation rate (BuAc=1) | < 1                                      |
| Vapor density (air=1)     | > 1                                      |

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**10. STABILITY AND REACTIVITY**

|                                         |                                                              |
|-----------------------------------------|--------------------------------------------------------------|
| <b>Stability</b>                        | This product is stable under recommended storage conditions. |
| <b>Conditions to Avoid</b>              | Excessive heat, sparks, open flames, direct sunlight.        |
| <b>Incompatibility</b>                  | Strong mineral acids and strong oxidizing agents.            |
| <b>Hazardous Decomposition Products</b> | None, other than normal products of combustion.              |
| <b>Hazardous Polymerization</b>         | Will not occur.                                              |

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**11. TOXICOLOGICAL INFORMATION**

No data available for this preparation. Data available for individual constituents is listed below:

|                        |                                                                          |                              |
|------------------------|--------------------------------------------------------------------------|------------------------------|
| <b>Acute toxicity</b>  | Hydrocarbon solvent                                                      | LD50/Oral: >10,000 mg/kg.    |
|                        | Aliphatic Propylene Glycol Ethers                                        | LD50/Rat/Oral: >2,000 mg/kg. |
|                        | d-Limonene                                                               | LD50/Rat/Oral: 4,400 mg/kg.  |
| <b>Chronic effects</b> | No constituents listed as human carcinogens by OSHA, ACGIH, NTP or IARC. |                              |
| <b>Sensitization:</b>  | Oxidized forms of d-Limonene may cause sensitization by skin contact.    |                              |

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**12. ECOLOGICAL INFORMATION**

|                               |                           |                                                                                                        |
|-------------------------------|---------------------------|--------------------------------------------------------------------------------------------------------|
| <b>Acute aquatic toxicity</b> | Isoparaffinic hydrocarbon | LC50/fathead minnow/ comparable substances: 2.5 to 16.4 mg/l.                                          |
|                               | 1-Propoxy-2-propanol      | LC50, fathead minnow/96h static: > 1,000 mg/l.                                                         |
|                               | d-Limonene:               | LC50/fathead Minnow/96-hour flow through: < 1mg/l.<br>LC50/Daphnia magna/48 hour flow-through: <1mg/l. |

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**13. DISPOSAL CONSIDERATIONS**

Dispose used wipe in a flameproof container. Do not allow used wipe to be exposed to excessive heat. Observe all applicable government regulations.

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**14. TRANSPORT INFORMATION**

**US DOT:** Non bulk containers: Exempt from regulation when shipped solely by land in containers less than 119 gallons.

**US DOT:** Bulk containers: UN3295, Hydrocarbons Liquid, N.O.S., 3, PG III

**IATA:** UN3295, Hydrocarbons Liquid, N.O.S., 3, PG III

**IMO:** UN3295, Hydrocarbons Liquid, N.O.S., 3, PG III

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**15. REGULATORY INFORMATION**

**OSHA Status:** This material is considered hazardous (irritant/combustible) by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**TSCA:** All components listed.

**EPCRA Section 313:** This product contains no extremely hazardous substances.

**SARA (311/312): REPORTABLE HAZARD CATEGORIES:** Fire, acute health.

**SARA (313) TOXIC RELEASE INVENTORY:** No listed components.

**CANADA (DSL):** All components listed.

**CANADA WHMIS Classification:** Class B Division 3 - Combustible liquid.  
Class D Division 2 Subdivision B - Toxic material

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**16. OTHER INFORMATION**

**NFPA Codes:** Health: 1 Fire: 2 Reactivity: 0

Revision Notes: 4/20/2010: Updated format and revised statements throughout document.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.