

MATERIAL SAFETY DATA SHEET

PETROFERM INC.

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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®* 105 Pre-Saturated Wipes

2. COMPOSITION AND INFORMATION ON INGREDIENTS

	CAS Number	Weight %	OSHA PEL	ACGIH TLV
Isoparaffinic hydrocarbon (C ₉₋₁₂ isoalkanes)	90622-57-4	40 - 60	Not est.	Not est.
1-Propoxy-2-propanol	1569-01-3	25 - 45	Not est.	Not est.
1-Methyl-4-(1-methylethenyl)- cyclohexene	5989-27-5	10 - 25	Not est.	Not est.

3. HAZARDS IDENTIFICATION

SYMPTOMS/EFFECTS OF OVEREXPOSURE

Inhalation: High vapor concentrations are irritating to the eyes and respiratory tract with headaches, dizziness, drowsiness, and unconsciousness.

Ingestion: May cause vomiting and nausea with possible liver and kidney injury.

Skin: Contact of several hours may cause mild to moderate local redness and swelling.

Eyes: Liquid vapor contact may cause eye irritation with tearing or blurring of vision.

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: Chemical foam, dry chemical, 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: Exercise care when disposing of rags contaminated with this product. Use normal precautions appropriate for oily rags.

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.

* Registered trademark of Petroferm Inc.

7. HANDLING AND STORAGE

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

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (780 mm Hg):	> 305°F (Base Solvent)	Vapor Density (Air = 1):	> 1
% Volatile (By Weight):	100	Evaporation Rate (BUAC = 1):	< 1
Specific Gravity (H₂O = 1):	0.80 @ 77°F (25°C)	Solubility in Water:	1% by weight.
Vapor Pressure(20°C):	< 2 mm Hg	Appearance and Odor:	Colorless liquid with a mild odor on wipes.
Flash Point:	105°F (41°C) (ASTM D93-85, Pensky-Martens Closed Cup)	Flammable Limits (% By Volume in Air):	Not determined

10. STABILITY AND REACTIVITY

- Stability:** BIOACT 105 Pre-Saturated Wipes is stable.
- Conditions to Avoid:** Temperatures above 305°F (152°C), sparks, open flames.
- Incompatibility:** Strong oxidizing agents, strong acids, strong bases.
- Hazardous Decomposition Products:** None, other than normal products of combustion.
- Hazardous Polymerization:** Will not occur.

11. TOXICOLOGICAL INFORMATION

Isoparaffinic hydrocarbon (C₉₋₁₂ isoalkane)

LD50/oral/rat = > 10,000 mg/kg
 LD50/dermal/rabbit = > 3,200 mg/kg
 Inhalation: LC50 = 20 mg/L

1-Propoxy-2-propanol

LD50/oral/rat = 3,250 mg/kg
 LD50/dermal/rabbit = 3,560 mg/kg

1-Methyl-4-(1-methylethenyl)-cyclohexene

LD50/oral/rat = > 5,000 mg/kg
 LD50/dermal/rabbit = > 5,000 mg/kg

12. ECOLOGICAL INFORMATION

Isoparaffinic hydrocarbon (C₉₋₁₂ isoalkanes)

LC50/EC50 (Minnow) 96 hours = > 5,000 mg/L
 LC50/EC50 (Golden Orfe) 48 hours = > 1,000 ppm

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION UN-No.: 3175

IATA

UN/ID No.: 3175

Class: 4.1

Packaging group: II

ICAO-Label: Flammable Solids

Proper shipping name:

Solids containing flammable liquids, N.O.S. (1-Propoxy-2-propanol and Mixed hydrocarbons)

15. REGULATORY INFORMATION

None of the components of BIOACT 105 Pre-Saturated Wipes 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 the Threshold Limit Values and Biological Exposure Indices compiled by the American Conference of Governmental Industrial Hygienists.

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

The isoparaffinic hydrocarbon (C₉₋₁₂ isoalkanes) is listed on the European Inventory of Existing Commercial Chemical Substances (EINECS) listing as number 292-459-0.

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

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

16. OTHER INFORMATION

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

<p>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.</p>
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