

MATERIAL SAFETY DATA SHEET

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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[®] 50 Aqueous Cleaner

2. COMPOSITION AND INFORMATION ON INGREDIENTS

	CAS Number	Weight %	OSHA PEL	ACGIH TLV
Dihydrogen oxide	7732-18-5	40 - 60	Not est.	Not est.
8-Hydroxy-tricarboxylic acid	77-92-9	1 - 2	Not est.	Not est.
2-Propanol-1-butoxy	5131-66-8	4 - 6	Not est.	Not est.
Oleyl imidazoline	27136-73-8	5 - 8	Not est.	Not est.
Propanol, [2(2-methoxymethylethoxy) methylethoxy]	20324-33-8	35 - 40	Not est.	Not est.
Poly (oxy-1,2-ethanediyl), alpha-(4-nonylphenol)-omega-hydroxy-	26027-38-3	2 - 4	Not est.	Not est.

3. HAZARDS IDENTIFICATION

SYMPTOMS/EFFECTS OF OVEREXPOSURE

Inhalation: Acute or chronic inhalation in unventilated areas may cause irritation of the respiratory tract.

Ingestion: Low order of toxicity. May cause mild nausea and abdominal discomfort.

Skin: Repeated or prolonged contact with skin may cause mild irritation.

Eyes: Contact with eyes will cause mild 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.

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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.

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.

8. EXPOSURE CONTROLS – PERSONAL PROTECTION

Respiratory: Use NIOSH/MSHA approved respirator if ventilation is not sufficient and if mists are generated.

Ventilation: Local exhaust can be effective in minimizing odor. Mechanical (general) ventilation should have an airflow of 55 CFM.

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(760 mm Hg):	213°F (100°C)	Vapor Density (Air = 1):	Not determined.
% Volatile (By Weight):	Not determined.	Evaporation Rate (BUAC = 1):	< 1
Specific Gravity (H ₂ O =1):	1.01 @ 77°F (25°C)	Solubility in Water:	Completely soluble.
Vapor Pressure(20°C):	> 10 mm Hg	Appearance and Odor:	Yellow to amber liquid with a mild odor.
Flash Point:	> 214°F (101°C) (ASTM D93-85, Pensky-Martens Closed Cup)	Flammable Limits (% By Volume in Air):	Not determined.

10. STABILITY AND REACTIVITY

Stability: BIOACT 50 is stable.

Conditions to Avoid: Temperatures above 210°F (99°C).

Incompatibility: Strong mineral acids and strong oxidizing agents.

Hazardous Decomposition Products: None, other than normal products of combustion.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

2-Propanol-1-butoxy

LD50/oral/rat = 3,300 mg/kg

LD50/dermal/rabbit = 1,400 mg/kg

12. ECOLOGICAL INFORMATION

No information available.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

Non-regulated.

15. REGULATORY INFORMATION

None of the components of BIOACT 50 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 Enforcement Act of 1986 – Proposition 65 as a chemical known to cause cancer, birth defects, or other reproductive harm.

Canadian WHMIS Classification: Class D Division 2 Subdivision B - Toxic material

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

16. OTHER INFORMATION

NFPA Codes: Health: 1 Fire: 1 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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