

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

AXAREL® 9100

2. COMPOSITION AND INFORMATION ON INGREDIENTS

	CAS Number	Weight %	OSHA PEL	ACGIH TLV
Mixed aliphatic hydrocarbons	64742-47-8	88 - 93	500 ppm	Not est.
Diisobutyl dibasic acid esters mixture		7 - 12		
diisobutyl glutarate	71195-64-7		Not est.	Not est.
diisobutyl adipate	141-04-8		Not est.	Not est.
diisobutyl succinate	925-06-4		Not est.	Not est.

3. HAZARDS IDENTIFICATION

SYMPTOMS/EFFECTS OF OVEREXPOSURE

Inhalation: May cause irritation of the upper respiratory passages.

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

Skin: Prolonged exposure may cause mild to severe irritation. AXAREL 9100 is not a skin sensitizer.

Eyes: Liquid or 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. Immediately give two glasses of water. 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 Hazards: 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. 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, mechanical (general) ventilation should have an airflow of 55 CFM or greater. 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 (760 mm Hg):	430°-563°F (221°-295°C)	Vapor Density (Air = 1):	6.7
% Volatile (By Weight):	Not determined.	Evaporation Rate (BUAC = 1):	< 0.1
Specific Gravity (H ₂ O = 1):	0.83 @ 77°F (25°C)	Solubility in Water:	< 0.1% by weight
Vapor Pressure (20°C):	< 0.1 mm Hg	Appearance and Odor:	Colorless to light yellow liquid with a mild hydrocarbon odor.
Flash Point:	205°F (96°C) (ASTM D93-85, Pensky-Martens Closed Cup)	Flammable Limits: (% By Volume in Air)	Not determined.

10. STABILITY AND REACTIVITY

Stability: AXAREL 9100 is stable.

Conditions to Avoid: Temperatures above 430°F (221°C). Keep away from heat, sparks, and 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

Diisobutyl dibasic acid esters
 LD50/oral/rat = 16,426 mg/kg
 LC50/inhalation/4 hrs/rat = > 31.9 mg/L

12. ECOLOGICAL INFORMATION

Diisobutyl dibasic acid esters
 96 hours LC50 in fathead minnows: 18 - 24 mg/L
 96 hours LC50 in daphnia magna: 112 - 150 mg/L

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 AXAREL 9100 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.

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

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

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.