

BTH-J410 Material Safety Data Sheet (MSDS)

1. IDENTIFICATION

1.1 Product Identifiers

Trade name: Perfluoropolyether Vacuum Pump Oil BTH-J410

Generic Description: Perfluoropolyether compound

Physical Form: Liquid

Color: Colorless

Odor: Odorless

1.2 Company Identification

Company: Anhui Bitech New Materials Co., LTD

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2. HAZARDS IDENTIFICATION

None present. This is not a hazardous material as defined in the OSHA Hazard Communication Standard.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Substance

Substance Name: Perfluoroalkyl ether

Chemical Nature: Perfluoropolyether compound

Hazardous Ingredients: No

4. FIRST AID MEASURES

Eye: Immediately flush with a large amount of water. If irritation symptoms persist, consult a professional physician.

Skin: Wash with soap and water. If irritation persists, seek medical help.

Inhalation: If decomposition product vapors are accidentally inhaled, immediately move to a well-ventilated area. If difficulty breathing occurs, oxygen should be administered or artificial respiration provided by professionals as instructed, and medical attention should be sought immediately.

Oral: Rinse the mouth and drink water as a preventive measure. Do not induce vomiting without medical advice. Consult a doctor after severe exposure.

Comments: Do not give any substance by mouth to an unconscious patient; treat symptomatically.

5. FIREFIGHTING MEASURES

Flash Point: Non-flammable

Autoignition Temperature: Not applicable

Flammability Limits in Air: Not applicable (product does not burn)

Extinguishing Media: This product does not burn; select extinguishing media suitable for other materials involved in the fire (e.g., dry chemical, foam, water spray for large fires; carbon dioxide (CO₂), dry chemical, or water spray for small fires). Water can be used to cool containers exposed to fire.

Fire Fighting Measures: Firefighters should wear self-contained breathing apparatus (SCBA) that operates in positive pressure mode and protective equipment to avoid contact with hot combustion products. Determine the need to evacuate or isolate the area according to local emergency plans.

Unusual Fire Hazards: None; however, above 290°C/554°F, vapors that irritate the respiratory system may be released.

Hazardous Decomposition Products: Thermal breakdown of this product during fire or under extremely high heat conditions may evolve vapors that irritate the respiratory system.

6. ACCIDENTAL RELEASE MEASURES

Containment/Clean up: Determine whether to evacuate or isolate the area according to local emergency plans. Observe all personal protection equipment recommendations described in Sections 7 and 8. For large spills, provide diking or other appropriate containment to prevent the material from spreading. If the diked material can be pumped, store the recovered material in a suitable container for reuse or disposal. Clean the remaining material from the spill with a suitable absorbent. Clean the area appropriately, as this material may present a slip hazard even in small quantities. Local, state, and federal laws and regulations may apply to the release and disposal of this material, as well as the materials and items used in cleanup. Determine which federal, state, and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information on certain federal and state requirements.

Note: See Section 8 for Personal Protective Equipment for Spills.

7. HANDLING AND STORAGE

Handling: Use with adequate ventilation. Avoid temperatures above 290°C/554°F without proper ventilation. Wear protective clothing (see Section 8). Avoid eye contact and do not inhale vapors or sprays. Do not eat or smoke when using this product.

Storage: Store in a sealed container in a dry, cool, and well-ventilated place. There are no special storage restrictions with other products. Use glass or polyethylene containers for storage. Keep this product separate from tobacco products.

8.EXPOSURE CONTROLS/PERSONAL PROTECTION

Component Exposure Limits

There are no components with workplace exposure limits (ACGIH - TLV, OSHA - PEL, EH40 (UK)

Occupational Exposure Limits: Not applicable for perfluoroalkyl ether).

Engineering Controls

Local Ventilation: None needed under normal conditions.

General Ventilation: Recommended.

Personal Protective Equipment for Routine Handling

Eyes: Use proper protection - safety goggles as a minimum.

Skin: Wash hands before meals and at the end of the shift; wear abrasion-resistant polyvinyl chloride gloves.

Suitable Gloves: Abrasion-resistant polyvinyl chloride gloves.

Inhalation: No respiratory protection needed under normal conditions.

Suitable Respirator: None needed under normal conditions.

Personal Protective Equipment for Spills

Eyes: Use proper protection - safety goggles as a minimum.

Skin: Wash hands before meals and at the end of the shift; wear abrasion-resistant polyvinyl chloride gloves.

Inhalation/Suitable Respirator: No respiratory protection needed unless large amounts of vapors are generated (in which case, use a respirator suitable for organic vapors).

Precautionary Measures

Avoid eye and skin contact. Use reasonable care. Do not eat or smoke when using this product; wash hands before eating or smoking. Keep this product separate from tobacco products.

Comments: None

Note: These precautions are for room temperature handling. Use at elevated temperatures may require additional precautions (e.g., enhanced ventilation, stricter personal protective equipment).

9.PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Liquid

Color: Colorless

Odor: Odorless

Relative density:g/cc

20℃ 1.89

50℃ 1.83

Viscosity: mm²/S(cSt)

20℃ 142

50℃ 32

100°C 7.2
 Freezing Point: No available data
 Flash Point: Non-flammable
 Vapor Pressure :Torr
 20°C 2×10^{-7}
 50°C 3×10^{-6}
 100°C 1×10^{-4}
 Vapor Density: Not determined
 Solubility in Water: Negligible
 pH (as supplied): Neutral
 Boiling Point: No available data
 Volatile Content (Volume): No available data

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal storage and handling conditions.
 Hazardous Polymerization: Hazardous polymerization will not occur.
 Conditions to Avoid: Avoid temperatures above 290°C/554°F.
 Materials to Avoid: None.
 Hazardous Decomposition: Above 290°C/554°F, vapors that irritate the respiratory system may be released.

11. TOXICOLOGICAL INFORMATION

Acute Toxicology Data / Component Toxicology Information:
 Skin (ALD value): >17000 mg/kg (rat)
 Oral (ALD value): >25000 mg/kg (rat)
 Inhalation (ALC value, 4h): >19.54 mg/l (rat)
 (Note: ALD/ALC: Average Lethal Dose/Average Lethal Concentration)
 Special Hazard Information on Components: No known applicable information.
 Long-term Toxicity: No available information on carcinogenicity; no known cases of aggravated conditions due to exposure.

12. ECOLOGICAL INFORMATION

Environmental Fate and Distribution: Complete information is not yet available.
 Environmental Effects: Complete information is not yet available.
 Fate and Effects in Waste Water Treatment Plants: Complete information is not yet available.
 Ecotoxicity Classification Criteria

Hazard Parameters (LC50 or EC50)	High	Medium	Low
Acute Aquatic Toxicity (mg/L)	≤ 1	>1 and ≤ 100	>100
Acute Terrestrial Toxicity	≤ 100	>100 and ≤ 2000	>2000

This table is adapted from "Environmental Toxicology and Risk Assessment", ASTM STP 1179, p.34, 1993.

This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above. Please read the other information presented in the section concerning the overall ecological safety of this material.

13.DISPOSAL CONSIDERATIONS

RCRA Hazard Class (40 CFR 261): When a decision is made to discard this material as received, it is not classified as a hazardous waste.

Disposal Requirements: Dispose of residual/unused products as special waste in accordance with the UK's Pollution Control (Special Waste) Regulations 1980 or other applicable national or international regulations. If contaminated packaging cannot be recycled, dispose of it in accordance with the UK's Environmental Protection (Duty of Care) Regulations 1991 or other applicable national or international regulations.

State or local laws may impose additional regulatory requirements regarding disposal.

14.TRANSPORT INFORMATION

DOT Road Shipment Information (49 CFR 172.101)

Not subject to DOT.

Ocean Shipment (IMDG)

Not subject to IMDG code.

Air Shipment (IATA)

Not subject to IATA regulations.

15.REGULATORY INFORMATION

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200

TSCA Status: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

EPA SARA Title III Chemical Listings

Section 302 Extremely Hazardous Substances: None.

Section 304 CERCLA Hazardous Substances: None.

Section 312 Hazard Class:

Acute: No

Chronic: No

Fire: No

Pressure: No

Reactive: No

16.OTHER INFORMATION

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene



and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate. This information is based on available information and is for safety reference only.

ISSUED BY

Anhui Bitehai New Materials Co., LTD

REVISION DATE 03.17.2025

REV. NO./REPL. SDS

GENERATED

SAFETY DATA SHEET STATUS

Approved.

DATE

03.17.2025

SIGNATURE

Eric

