

**Weiss Bonya**

**Gemini<sup>®</sup>**

# PFPE Vacuum Pump Oils

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Material Safety Data Sheet

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## 1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

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### Product Name

“Gemini” PFPE Vacuum Pump Oils

### Tradenames and Synonyms

“Gemini” VPO-1201/1202/1203/1204/1205

“Gemini” VPO-1305/1326/1335

### Identified use

Scientific research and development of pump oil

### Company Identification

HUNAN WEISS BONYA CO.,LTD

Add:No.10,Wangchengpo,Yuelu district,Changsha,Hunan,China

Email: weissbonya@gmail.com

Web:http://www.weissbonya.com

### Phone Number

Emergency phone No. 24 hours :+ 86-731-84225539

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## 2. HAZARDS IDENTIFICATION

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### Emergency Overview

The product as such is not hazardous. The thermal decomposition vapours of fluorinated polymers may result in lung effects.

### Potential Health Effects

Skin : May cause slight irritation, Redness.

Eyes : May cause discomfort, Blurred vision.

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Material	CAS-NO.	Concentration
Perfluoroalkylether	60164-51-4	100%

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## 4. FIRST AID MEASURES

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### First Aid

#### INGESTION

If swallowed, wash out mouth with copious amounts of water provided person is conscious, call a physician.

#### INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

#### SKIN CONTACT

In case of contact, immediately wash skin with soap and water. Wash contaminated clothing before reuse.

#### EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

#### GENERAL ADVICE

When symptoms persist or in all cases of doubt seek medical advice.

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## 5. FIRE FIGHTING MEASURES

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### Flash Point

Method : Pensky-Martens closed cup - PMCC does not flash

### Thermal decomposition

350 °C (662 °F)

### Fire and Explosion Hazard

In fire conditions, toxic decomposition products may be formed. (see also section 10)

### Extinguishing Media

Carbon dioxide, dry chemical powder, foam. Use water spray to cool containers.

### Fire Fighting Instructions

Wear self-contained breathing apparatus (SCBA). Wear suitable protective equipment.

Standard procedure for chemical fires.

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## 6. ACCIDENTAL RELEASE MEASURES

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**NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with cleanup. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.**

### **Safeguards (Personnel)**

Refer to protective measures listed in sections 7 and 8.

### **Environmental Precautions**

Do not discharge into drains or rivers.

### **Spill Clean Up**

Soak up with sawdust, sand, oil dry or other absorbent material. Shovel or sweep up.

### **Accidental Release Measures**

Place in container for disposal . Remove source of heat and flame.

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## 7. HANDLING AND STORAGE

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### **Handling (Personnel)**

Avoid breathing vapors from overheated material. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

General industrial hygiene practice.

### **Storage**

No special storage conditions required. Keep container closed to prevent contamination.

No decomposition if stored and applied as directed.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### **Engineering controls**

Keep container tightly closed.

Use ventilation when the oil is heated above 550 degF, local ventilation should be used to avoid exposure to fumes.

### **Personal Protective Equipment**

#### **Respiratory protection**

No personal respiratory protective equipment normally required. In the case of hazardous fumes caused by overheating, wear self-contained breathing apparatus.

#### **Hand protection**

Additional protection: No particular glove type is recommended, but nitrile may used.

#### **Eye protection**

Safety glasses.

#### **Skin protection**

No PPE is specified however, avoid contact with skin, eyes, and clothing.  
Preventive skin protection

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## **9. PHYSICAL AND CHEMICAL PROPERTIES**

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### **Physical Data**

Solubility in water: insoluble

PH:Neutral

Odor:Odorless

Form: viscous,Liquid

Colour: Colourless

Specific Gravity:1.86-1.95g/cm<sup>3</sup> (20 °C)

Pour Point: -70 to -5 °C

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## **10. STABILITY AND REACTIVITY**

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### **Stability**

Stable under recommended storage conditions.

### **Conditions to avoid**

Decomposition temperature 350 °C (662 °F)

### **Hazardous decomposition**

Hazardous thermal decomposition products: Fluorinated compounds products.

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## **11. TOXICOLOGICAL INFORMATION**

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### **Acute Toxicity**

#### **Perfluoropolyether**

Oral, LD50 : > 11,000 mg/kg, rat

Inhalation, LC50, 4 hrs, dust/vapor , rat : No potential effects observed

Skin Contact, LD50 : > 17,000 mg/kg, rabbit

Skin irritation : slight irritation, rabbit  
Eye irritation : slight irritation, rabbit  
Skin sensitization : Patch test on human volunteers did not demonstrate sensitization properties., human  
Further information : The substance is a polymer and is not expected to produce toxic effects.

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## 12. ECOLOGICAL INFORMATION

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### **Aquatic Toxicity**

96 hrs, LC50

Oncorhynchus mykiss (rainbow trout) > 1,000 mg/l

The substance is a polymer and is not expected to produce toxic effects.

72 hrs, ErC50

(green algae) > 1,000 mg/l

72 hrs, NOEC

(green algae) > 1,000 mg/l

48 hrs EC50

Daphnia magna (Water flea) > 100 mg/l

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## 13. DISPOSAL CONSIDERATIONS

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### **Waste Disposal**

Treatment ,storage,transportation,and disposal must be in accordance with local, state and federal regulations.

### **Environmental Hazards**

Dispose of container properly. If recycling is not practicable, dispose of in compliance with local regulations.

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## 14. TRANSPORTATION INFORMATION

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### **UNRTDG**

**Not regulated as a dangerous good**

### **IATA-DGR**

**Not regulated as a dangerous good**

### **IMDG-Code**

**Not regulated as a dangerous good**

**Packing group : None**

**Environmental hazards : None**

**Marine pollutant : None**

**NOT classified as dangerous in the meaning of transport regulations**

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## **15. REGULATORY INFORMATION**

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**EPCRA:** Emergency Planning and Community Right-to-Know

**SARA 304** Extremely Hazardous Substances Reportable Quantity

This material does NOT contain any components with a section 304 EHS RQ

**SARA 302** Extremely Hazardous Substances Threshold Planning Quantity

This material does NOT contain any components with a section 302 EHS TPQ

**SARA 311/312 Hazards:** NO SARA Hazards

**SARA 313:** This material does NOT contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313

**CERCLA Reportable Quantity :** This material does NOT contain any components with a CERCLA RQ

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## **16. OTHER INFORMATION**

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Personal Protection rating to be supplied by user depending on use conditions.  
The data in this Material Safety Data Sheet relates only to the specific material designated here in and does not relate to use in combination with any other material or in any process.



Updated: May 15, 2017