

**Weiss Bonya**

# Gemini<sup>®</sup> PFPE Functional Material

Material Safety Data Sheet

## 1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

### Product Name

"Gemini" PFPE Functional material Phosphate Ester

### Tradenames and Synonyms

"Gemini" PHP-51, PHP-52, PHP-53, PHP-57

### HUNAN WEISS BONYA CO. , LTD

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

Email: weissbonya@gmail.com

Web:http://www.weissbonya.com

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

## 2. HAZARDS IDENTIFICATION

### Classification according to Regulation 29CFR 1910 1200

Not a hazardous substance

### GHS Label elements, including precautionary statements

#### Pictogram

None Required

#### Symbol

None Required

### Signal word

None Required Not Hazardous

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Perfluoropolyether	Trade secret	100%

Any unidentified components and/or concentrations (exact percentages) are considered trade secrets.

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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.

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## 5. FIRE FIGHTING MEASURES

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### Flash point

None

### Extinguishing Media

Water spray, alcohol resistant foam, dry chemical, or carbon dioxide. Cool all affected containers with flooding quantities of water.

### Fire Fighting Instructions

Protective equipment: wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific hazard(s): emits toxic fumes under fire conditions.

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## 6. ACCIDENTAL RELEASE MEASURES

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### Safeguards (Personnel)

Avoid breathing vapor mist, or gas. Ensure adequate ventilation. Wear protective equipment including rubber gloves, and eye protection. Keep unprotected persons away. Normal measures of preventive fire protection.

### Environmental precautions

Prevent further leakage or spillage if safe to do. Take precautions to ensure product does not contaminate the ground or enter the drainage system.

### **Spill Clean Up**

Absorb on dry sand or vermiculite, sweep up and place in container for disposal according to local regulations.

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## **7. HANDLING AND STORAGE**

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### **Handling (Personnel)**

User exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

### **Storage**

Store in cool, well ventilated area. Keep container tightly closed. Avoid direct sunlight.

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## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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### **Engineering controls**

Safety shower and eyes bath. Mechanical exhaust required.

### **Personal protective equipment**

Respiratory: Use a full-face respirator with multi-purpose combination (US) or type abek (EN 14387) respirator cartridges as a backup to engineering controls.

If the respirator is the sole means of protection, use a full-face approved under appropriate government standards such as NIOSH(US) or CEN(EU).

Hand: Protective gloves. gloves must be inspected prior to use.

Eyes: Chemical safety goggles.

### **General Hygiene measures**

Wash thoroughly after handling.

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

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Appearance: Transparent to light yellow liquid

Odor: None

Density at 25 °C: 1.91-1.95g/cm<sup>3</sup>

Viscosity at 25 °C: 400-550cP

Flash Point: None

Water Solubility: Insoluble

MW amu: 1000~8200

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## 10. STABILITY AND REACTIVITY

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### **Stability**

Stable: stable under recommended storage conditions.

Materials to avoid: strong oxidizing agents, finely divided active metals, alkali and alkaline earth metals. Dry alkoxides may decompose violently.

Conditions to avoid: heat, flames and sparks, extremes of temperature, moisture and direct sunlight.

### **Hazardous decomposition products**

Hazardous decomposition products: carbon oxides, hydrogen fluoride.

### **Hazardous polymerization**

Hazardous polymerization: will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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### **Route of exposure**

Inhalation: may be harmful if inhaled. Irritating to the respiratory tract.

Ingestion: may be harmful if swallowed.

Skin: may be harmful if absorbed through skin. Cause skin irritation.

Eyes: causes eye irritation.

### **Signs and symptoms of exposure**

To the best of our knowledge, The toxicological properties of this product have not been fully determined.

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## 12. ECOLOGICAL INFORMATION

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### **Toxicity**

No data available.

### **Persistence and degradability**

No data available.

### **Bioaccumulative potential**

No data available.

### **Mobility in soil**

No data available.

### **Other adverse effects**

No data available.

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## 13. DISPOSAL CONSIDERATIONS

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### **Disposal operations**

Material should be disposed of in accordance with local, state and federal regulations.

### **Disposal of packaging**

Dispose of as special waste in compliance with local and national regulations  
Observe all federal, state and local environmental 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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**IECSC:** On the inventory, and in compliance with the CN regulations

**EINECS:** On the inventory, and in compliance with the EU regulations

**ENCS:** On the inventory, and in compliance with the JP regulations

**KECI:** On the inventory, and in compliance with the KR regulations

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

**TSCA:** On the inventory, and in compliance with the US regulations

**AICS:** On the inventory, and in compliance with the AU regulations

**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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NFPA/HMIS Rating: Health: 1 Flammability: 0 Reactivity 0

REFERENCE: Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 19th edit., 2015 UN Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012), GHS Classification Guidance for Enterprises 2013 Revised Edition.

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