

**Weiss Bonya**

# Gemini<sup>®</sup> PFPE Greases

---

Material Safety Data Sheet

---

## 1. Gemini<sup>®</sup> PFPE GREASE

SA-2P4、SA-2P5、SA-2P6、SA-2P7

---

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. COMPOSITION/INFORMATION ON INGREDIENTS

---

Component	CAS-No.	Concentration
Perfluoropolyether	60164-51-4	70-85%
PTFE	9002-84-0	10-25%
High pressure additive		5-10%
Soluble Additive		1-5%

---

## 3. HAZARDS IDENTIFICATION

---

### Emergency Overview

The thermal decomposition vapours of fluorinated polymers may cause polymer fume fever with flu-like symptoms in humans, especially when smoking contaminated tobacco. Repeated episodes of polymer fume fever may result in persistent lung effects.

### Potential Health Effects

Skin : May cause: slight irritation, Redness.

Eyes : May cause eye irritation. Discomfort, tearing, Blurred vision.

### Carcinogenicity

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

---

## 4. FIRST AID MEASURES

---

### First Aid

**INGESTION**

Never give anything by mouth to an unconscious person. DO NOT induce vomiting unless directed to do so by a physician or poison control center.

**INHALATION**

Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.

**SKIN CONTACT**

In case of contact, wash with water and soap as a precaution.

**EYE CONTACT**

In case of contact, rinse with plenty of water. If eye irritation persists, consult a specialist.

General advice, when symptoms persist or in all cases of doubt seek medical advice.

---

**5. FIRE FIGHTING MEASURES**

---

**Flash point**

None

**Thermal decomposition**

300 °C (572 °F)

**Extinguishing Media**

The product itself does not burn.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Fire Fighting Instructions**

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

Standard procedure for chemical fires.

---

**6. ACCIDENTAL RELEASE MEASURES**

---

**Spill Clean Up**

Shovel into suitable container for disposal.

**Accidental Release Measures**

Prevent material from entering sewers, waterways, or low areas.

---

## 7. HANDLING AND STORAGE

---

### 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.

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

---

### Engineering controls

In the event that the polymer is heated above 260° C (500° F), local ventilation should be used to avoid exposure to fumes.

### Personal protective equipment

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

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

Eyes: Chemical safety goggles.

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

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

---

Form : grease fat

Color : white

Odor : none

pH : neutral

Melting point/range : 320 °C (608 °F)

Specific gravity : 1.89 - 1.93 at 24 °C (75 °F)

Water solubility : insoluble

---

## 10. STABILITY AND REACTIVITY

---

### Stability

Stable: stable under recommended storage conditions.

### Conditions to avoid

Decomposition temperature 260 °C (500°F)

### Hazardous decomposition products

Hazardous thermal decomposition products: Fluorinated compounds.

---

## 11. TOXICOLOGICAL INFORMATION

---

Acute Toxicity : Not classified based on available information

Skin irritation : slight irritation, rabbit

Eye irritation : slight irritation, rabbit

Sensitisation : Animal test did not cause sensitization by skin contact, guinea pig

### Perfluoropolyether

Inhalation 4 hrs ALC - Approximate Lethal Concentration : ca. > 19.54 mg/l , rat

Mutagenicity : Did not cause genetic damage in cultured bacterial cells.

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

### PTFE

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

### High pressure additive

Oral, LD50 : > 2,000 mg/kg , rabbit

The substance is not expected to produce toxic effects.

### Soluble Additive

Oral LD50 : > 5,000 mg/kg , rat

Skin irritation : no irritation, rabbit

Eye irritation : no irritation, rabbit

Further information : Not classified based on available information

---

## 12. ECOLOGICAL INFORMATION

---

### Aquatic Toxicity

Perfluoropolyether

96 hrs LC50 : Oncorhynchus mykiss (rainbow trout) > 1,000 mg/l ,The substance is a polymer and is not expected to produce toxic effects.  
48 hrs EC50 : Daphnia magna (Water flea) > 1,000 mg/l

**PTFE**

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

**High pressure additive**

The substance is not expected to produce ecological effects based on available information.

**Soluble Additive**

The substance has no known ecological effects.

---

## 13. DISPOSAL CONSIDERATIONS

---

**Waste Disposal**

In accordance with local and national regulations.

**Environmental Hazards**

Dispose of container properly.

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

---

## 14. TRANSPORTATION INFORMATION

---

**UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

NOT classified as dangerous in the meaning of transport regulations

---

## 15. REGULATORY INFORMATION

---

**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



Updated: May 26th, 2017