

**Weiss Bonya**

# Gemini<sup>®</sup> PFPE Greases

Material Safety Data Sheet

## 1. Gemini<sup>®</sup> PFPE GREASE

RG-7P

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Perfluoropolyether	60164-51-4	50-70%
Inorganic high pressure thickener		30-50%

## 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.

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## **5. FIRE FIGHTING MEASURES**

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#### **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.

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## **6. ACCIDENTAL RELEASE MEASURES**

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#### **Spill Clean Up**

Shovel into suitable container for disposal.

#### **Accidental Release Measures**

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

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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**

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.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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Form : grease fat

Color : white to light gray

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

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**10. STABILITY AND REACTIVITY**

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**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.

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**11. TOXICOLOGICAL INFORMATION**

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**Gemini® PFPE GREASE RG-7P**

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.

**Inorganic high pressure thicker**

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

Skin irritation : no irritation, rabbit

Eye irritation : no irritation, rabbit

Further information : The substance is not expected to produce toxic effects based on available information.

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**12. ECOLOGICAL INFORMATION**

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**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

**Inorganic high pressure thicker**

24 hrs LC50 : (carp) > 100,000 mg/l

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

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## 13. DISPOSAL CONSIDERATIONS

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### **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.

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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

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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