

**Weiss Bonya**

# Gemini<sup>®</sup> PFPE Grease

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Material Safety Data Sheet

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## 1. Gemini<sup>®</sup> PFPE GREASE UHT-BDXP

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

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Component	CAS-No.	Concentration
Perfluoropolyether	60164-51-4	85-95%
Silicon dioxide	7631-86-9	5-15%

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## 3. HAZARDS IDENTIFICATION

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### 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.

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## 4. FIRST AID MEASURES

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### 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

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 UHT-BDXP**

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

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.

#### **Silicon dioxide**

Oral LD50 : > 10,000 mg/kg , rat

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

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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

#### **Silicon dioxide**

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

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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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