

**Weiss Bonya**

# Gemini<sup>®</sup> PFPE Greases

Material Safety Data Sheet

## 1. Gemini<sup>®</sup> PFPE GREASE UHT-BDX、UHT-BDZ、RG-47

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Perfluoropolyether	60164-51-4	70-85%
Boron nitride	10043-11-5	15-30%
High temperature additive		0-1%

## 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

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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### 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

### Boron nitride

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

The substance is not expected to produce toxic effects.

### High temperature additive

Oral, LD50 : > 2,600 mg/kg , rat

Inhalation, LC50 : >2.12 mg/l , rat

Skin contact : > 2,000 mg/kg , rabbit

Mutagenicity : Experiments showed mutagenic effects in cultured bacterial cells.

Genetic damage in cultured mammalian cells was observed in some laboratory tests but not in others.

Genetic damage in animals was observed in some laboratory tests but not in others.

Teratogenicity : Animal testing showed effects on embryo-foetal development at levels below those causing maternal toxicity.

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## 12. ECOLOGICAL INFORMATION

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### Aquatic Toxicity

### Boron nitride

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

High temperature additive

96 hrs LC50 : Oncorhynchus mykiss (rainbow trout) 74 mg/l

72 hrs EC50 : Desmodesmus subspicatus (green algae) 54 mg/l

72 hrs NOEC : Desmodesmus subspicatus (green algae) 27.9 mg/l

48 hrs EC50 : Daphnia magna (Water flea) 133 mg/l

32 days NOEC Cyprinus carpio (Carp) 11.2 mg/l

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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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