Weiss Bonya

Gemini® PFPE Greases

Material Safety Data Sheet

1. Gemini® 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

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

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
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

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.

12. ECOLOGICAL INFORMATION

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

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

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

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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