Weiss Bonya

Gemini®
Perfluorinated Electronic Fluid

Material Safety Data Sheet

1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Product Name

"Gemini" Perfluorinated Electronic Fluid

Tradenames and Synonyms

"Gemini" FL-60

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Perfluoro Compounds, C5-18	86508-42-1	100%

3. HAZARDS IDENTIFICATION

Emergency Overview

The product as such is not hazardous. The thermal decomposition vapours of fluorinated polymers may result in lung effects.

Potential Health Effects

Skin : May cause slight irritation, Redness.
Eyes : May cause discomfort, Blurred vision.
Inhalation : May cause respiratory irritation.

4. FIRST AID MEASURES

First Aid

INGESTION
If swallowed,wash out mouth with copious amounts of water provided person is conscious,call a physician.

INHALATION
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT
In case of contact, immediately wash skin with soap and water. Wash contaminated clothing before reuse.

EYE CONTACT
In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

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5. FIRE FIGHTING MEASURES

Flash point
None

Extinguishing Media
Warter spray, alcohol resistant foam, dry chemical, or carbon dioxide. Cool all affected containers with flooding quantities of water.

Fire Fighting Instructions
Protective equipment: wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Specific hazard(s): emits toxic fumes under fire conditions.

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6. ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)
Avoid breathing vapor mist, or gas. Ensure adeqyate ventilation. Wear protective equipment including rubber gloves, and eye protection. Keep unprotected persons away. Normal measures of preventive fire protection.

Environmental precautions
Prevent further leakage or spillage if safe to do. Take precautions to ensure product does not contaminate the ground or enter the drainage system.

Spill Clean Up
Absorb on dry sand or vermiculite, sweep up and place in container for disposal according to local regulations.

7. HANDLING AND STORAGE

Handling (Personnel)

User exposure: Avoid inhalation. Avoid contact with eys, skin, and clothing. Avoid prolonged or repeated exposure.

Storage

Store in cool, well ventilated area. Keep container tightly closed. Avoid direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

Safety shower and eys bath. Mechanical exhaust required.

Personal protective equipment

Respiratory: Use a full-face respirator with multi-purpose combination (US) or type abek (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face approved under appropriate government standards such as NIOSH(US) or CEN(EU).
Hand:Protective gloves.gloves must be inspected prior to use.
Eyes: Chemical safety goggles.

General Hygiene measures

Wash thoroughly after handing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Transparent clear liquid
Density at 25°C: 1.68g/cm3
Boiling Point/Boiling Range : 56 °C
Flash Point : none
Melting Point : -90 °C
Surface Tension : 12 dynes/cm
Vapor Pressure: 30.9×10^3 pascals @ 25°C
Ozone Depletion Potential : 0
Dielectric Strength : 40 kV 0.1mm gap
Solubility in Water : insoluble in water, <5ppm
Molecular Weight : 338

10. STABILITY AND REACTIVITY

Stability

Stable: stable under recommended storage conditions.
Materials to avoid: strong oxidizing agents, finely divided active metals, alkali and alakine earth metals. Dry alkoxides may decompose violently.
Conditions to avoid: heat, flames and sparks,extremes of temperature, moisture and direct sunlight.

Hazardous decomposition products

Hazardous decomposition products: carbon oxides, hydrogen fluoride.

Hazardous polymerization

Hazardous polymerization: will not occur.

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11. TOXICOLOGICAL INFORMATION

Toxicological Data

Oral Rat LD50: > 5000 mg/kg
Inhalation Rat LC50: > 276 mg/l 4 H

Acute Toxicity

No effects known

Route of exposure

Inhalation: may be harmful if inhaled. Irritating to the respiratory tract.
Ingestion: may be harmful if swallowed.
Skin: may be harmful if absorbed through skin. Cause skin irritation.
Eyes: causes eye irritation.

Signs and symptoms of exposure

To the best of our knowledge, The toxicological properties of this product have not been fully determined.

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12. ECOLOGICAL INFORMATION

Ecotoxicological Data

EC50 Water flea (Daphnia magna): > 1500 mg/L 48 H
LC50 Fathead minnow (Pimephales promelas): > 1000 mg/L 96 H
IC50 Green algae (Selenastrum capricornutum): > 120 mg/L 96 H

Toxicity

No data available.

Persistence and degradability

No data available.

Bioaccumulative potential
No data available.

Mobility in soil
No data available.

Other adverse effects
No data available.

13. DISPOSAL CONSIDERATIONS

Disposal operations

Material should be disposed of in accordance with local, state and federal regulations.

Disposal of packaging

Dispose of as special waste in compliance with local and national regulations
Observe all federal, state and local environmental 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

Packing group : None

Environmental hazards : None

Marine pollutant : None

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

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16. OTHER INFORMATION

Personal Protection rating to be supplied by user depending on use conditions. The data in this Material Safety Data Sheet relates only to the specific material designated here in and does not relate to use in combination with any other material or in any process.

Updated: September 16th, 2017