

# MATERIAL SAFETY DATA SHEET

JAN.26, 2016

## 1. PRODUCT AND COMPANY IDENTIFICATION

-Product Name : M-GSEPV

-Product Use : Lubricating Grease

-Supplier

Mold Components Division, MISUMI Die & Mold Business Company, MISUMI Corporation

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Administrative Number: M-GSEPV1001125\_ENG

## 2. CONPOSITION / INFORMATION ON INGREDIENTS

Substance/mixture : Mixture

Component	% By Weight	CAS Number
Perfluoropolyether	90.0	113114-19-5
Polytetrafluoroethylene	8.0	9002-84-0
Etc.	2.0	-----

## 3. HAZARDS IDENTIFICATION

Classification: A blend of Fluoro Oil and PTFE particles.

Dangerousness Inducement: Fire & Explosion: The Fluoro Oil being used as raw material is flammable liquid.

## 4. FIRST AID MEASURES

Eyes: Flush eyes, including under the eyelids, with large amount of water.

If irritation persists, seek medical attention.

Skin: Wash thoroughly with mild soap and water.

Ingestion: Give copious amount of water or preferably milk and seek medical attention.

Inhalation: Remove to fresh air. Seek medical attention if symptoms persist.

## 5. FIRE FIGHTING MEASURES

Cut off combustion source to the fire and extinguish it using a fire extinguishing agent. Also, cool down nearby tanks, building, etc., using a water spray to prevent the fire is forming & spreading. Extinguish the fire fore windward and wear a respirator as necessary.

Flush Point:	>220°C
Auto-Ignition Temp:	No Data
Flammable Limits LFL:	N/A
Unusual Fire & Explosive Hazards:	Vapors are heavier than air and can travel along the ground to remote ignition source.
Fire Fighting Equipment:	Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.
Additional Notes:	High-temperature operation (over 350°C) Designed to burn fluorine compounds.

## 6. ACCIDENTAL RELEASE MEASURES

In case of small amount of leakage, collect it in an empty container by absorbing with earth or sand and wash off the remains with a large amount of water. In case of large amount of leakage, prevent it from flowing with earth or and, lead it to a safe place, cover the surface with form, etc. And if possible, collect it in a container. Wash off the remains with large amounts of water. In this case, make sure that it should not be brained to a river, etc.

## 7. HANDLING AND STORAGE

Handling:	No special instructions.
Storage:	Avoid direct sunlight and store it where temperature dose not rise over 40°C. No contact with acids or chemical bases. No smoking.
Transportation:	Not dangerous goods.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection:	No special requirements.
Ventilation:	No special requirements.
Protective Glove:	Oil-resistant glove (PVC etc.)
Eye Protection:	Chemical workers goggles.

Wear: Long sleeve clothing.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White	Odor:	No odor
Physical State:	Paste	pH:	N/A
Vapor Pressure:	0.2	Boiling Point:	No data
Vapor Density:	No data	Freezing Point:	-54°C
Solubility in Water:	Not soluble	Specific gravity:	1.95
Evaporation Rate:	Not determined		

Solubility in organic solvent: Soluble in fluorinated solvents.

#### 10. STABILITY AND REACTIVITY

Stability: This product is stable under all normal condition of storage.  
Hazardous polymerization will not occur.

Incompatibility: Oxidizing material can cause a reaction.  
Materials to avoid Molten alkali metals, inter halogen compounds.

Hazardous Decomposition Products: Carbon Monoxide and Carbon Dioxide, Hydrogen Fluoride, perfluoroisobutylene, Carbonyl Fluoride, Tetrafluoroethylene, Hexafluoropylene.

#### 11. TOXICOLOGICAL INFORMATION

Toxicological Information: No experimental toxicological data on the preparation as such is available.

#### 12. ECOLOGICAL INFORMATION

Ecological Information: No data on possible environmental effects have been found.

#### 13. DISPOSAL CONSIDERATION

Disposal Methods: Spilled material, unused contents and empty containers must be disposed of in accordance with local, state and federal regulations.

#### 14. TRANSEPORT INFORMATION

DOT Hazard Class:	Not Regulated
SEA Transport:	Not Regulated
AIR Transport:	Not Regulated

15. REGULATORY INFORMATION

US Federal Regulations: Clean air act

SARA Hazard Categories: None

Regulatory Status: Not a controlled product

16. OTHER INFORMATION

All reasonable care has been taken in the preparation of the information contained herein, the manufacturer extend no warranties, makes no makes representation and assumes no responsibility as to the accuracy or suitability of such information for application to purchaser's intended purposes or for consequences of its use.