



# ENPARTICLES

## Material Safety Data Sheet

### ENPARTICLES<sup>®</sup> - PFPE-203 PFPE Grease

Revision Date: 12/08/2016

#### SECTION 1. PRODUCT AND COMPANY INFORMATION

Product name: ENPARTICLES<sup>®</sup> PFPE-203 PFPE Grease  
Product type: Industrial PFPE Grease  
Product use: Lubrication  
Company contact: 1 Bridge Plaza N, Suite 275  
Fort Lee, NJ 07024, USA  
1-800-680-0891  
support@enparticles.com

#### SECTION 2. HAZARDS IDENTIFICATION

##### Emergency Overview

The product as such is not hazardous. The thermal decomposition vapors of fluorinated polymers may cause polymer fume fever with flu-like symptoms in humans, especially when smoking contaminated tobacco.

##### Potential Health Effects

Eyes : May cause eye irritation.

##### Carcinogenicity

No

#### SECTION 3. COMPOSITION INFORMATION

Component	CAS-No.	Concentration
Perfluoropolyether	60164-51-4	

## SECTION 4. FIRST AID MEASURES

<b>Skin contact:</b>	Wash with soap and plenty of water.
<b>Eye contact:</b>	Rinse with plenty of water, if irritation persists, consult a specialist.
<b>Inhalation:</b>	Move to fresh air in case of accidental inhalation of fumes.
<b>Ingestion:</b>	DO NOT induce vomiting unless directed to do so by a physician.
<b>General advice:</b>	When symptoms persist or in all cases of doubt, seek medical help.

## SECTION 5. FIRE-FIGHTING MEASURES

### Flammable Properties

Flash point : Method : Pensky-Martens  
closed cup - PMCC does  
not flash

**Thermal decomposition** : ~300 °C (~572 °F) (See spec sheet)

**Fire and Explosion Hazard** : In fire conditions, toxic decomposition products may  
be formed.

**Suitable extinguishing media** : The product itself does not burn.  
Use extinguishing measures that are appropriate to local  
circumstances and the surrounding environment.

**Firefighting Instructions** : Wear self-contained breathing apparatus and protective  
suit. Standard procedure for chemical fires.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

ALWAYS review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

**Safeguards (Personnel)** : Refer to protective measures listed in sections 7 and 8.

**Spill Cleanup** : Shovel into suitable container for disposal.

**Accidental Release Measures** : Prevent material from entering sewers, waterways, or low areas.

## SECTION 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.

## SECTION 8. EXPOSURE / PERSONAL PROTECTION

### Engineering controls

In the event that the polymer is heated above 300°C (572 F) local ventilation should be used to avoid exposure to fumes.

### Personal protective equipment

Respiratory protection	: No personal respiratory protective equipment normally required. In the case of hazardous fumes caused by overheating, wear self-contained breathing apparatus.
Hand protection	: Additional protection: No particular glove type is recommended, but nitrile may used.
Eye protection	: Safety glasses
Skin and body protection	: No PFPE is specified however, avoid contact with skin, eyes, and clothing.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: oil
Color	: clear
Odor	: none
pH	: neutral
Melting point/range	: - Refer to Spec Sheet -
Specific Gravity	: 1.86 - 1.91
Water solubility	: insoluble

## SECTION 10. STABILITY AND REACTIVITY

Stability	: Stable under recommended storage conditions.
Conditions to avoid	: Decomposition temperature 300 °C (572 °F)
Hazardous decomposition	: Hazardous thermal decomposition products: Fluorinated compounds products

## SECTION 11. TOXICOLOGICAL INFORMATION

Oral ALD	: > 11,000 mg/kg , rat
Skin irritation	: Species: rabbit, No skin irritation Draize Test
Eye irritation	: Species: rabbit, Mild eye irritation Draize Test
Sensitization	: Species: guinea pig, Animal test did not cause sensitization by skin contact. Method: Buehler Test
Further information	: The substance is a polymer and is not expected to produce toxic effects.

## SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity Perfluoropolyether  
96 h LC50 : Oncorhynchus mykiss (rainbow trout) > 1,000 mg/l

Aquatic toxicity is unlikely due to low solubility  
48 h static test EC50 : Daphnia magna (Water flea) > 1,000 mg/l PTFE  
Aquatic toxicity is unlikely due to low solubility.

Additional ecological information : No data is available on the product itself.

## SECTION 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.

## SECTION 14. TRANSPORTATION INFORMATION

Not classified as dangerous in the meaning of transport regulations.

## SECTION 15. REGULATORY INFORMATION

TSCA Status : On the inventory, or in compliance with the inventory

PA Right to Know : Substances on the Pennsylvania Hazardous Substances List present at a Regulated Chemical(s) concentration of 1% or more (0.01% for Special Hazardous Substances):  
Polytetrafluoroethylene  
Polytetrafluoroethylene is listed, but we believe it was listed in error and have petitioned to have it delisted.

## SECTION 16. OTHER INFORMATION

MSDS preparation date: 12/08/2016

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.