



Material Safety Data Sheet

Version Date: 5/16

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Section 1 – Chemical Product and Company Identification

Product Name:	MicroPoly® MPI-4500	
Product Use:	Lubrication with oil-containing polymer	
Manufacturer:	PhyMet, Inc. 75 N. Pioneer Blvd. Springboro, OH 45066 www.micropoly.com	937-743-8061

Section 2 – Hazards Identification

Potential Health Effects:	Hazard summary (as defined by OSHA Hazard Communication Standard 29 CFR 1910-1200) Physical Hazards: None Health Hazards: None under 500°F
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Section 3 – Composition/Information on Ingredients

Ingredients:	Ingredient	CAS Number
	Synthetic Base Oil	68037-01-4
	Polyethylene	9002-88-4
	Perfluorocarbon Resins	9002-84-0
	Proprietary Additive	Mixture

Composition is considered a trade secret.

Section 4 – First Aid Measures

Skin Contact:	Oil can be removed with soap and water.
Eye Contact:	Flush with clear water for 15 minutes or until irritation subsides.
Inhalation:	At ambient temperature, inhalation is not a problem. If product is very hot, oil vapors may occur. Remove to area where oil mist is not present. Fresh air environment is suggested. If breathing is irregular or stopped, resuscitate (administer oxygen if available). Seek physician's advice.
Ingestion:	Do not induce vomiting. Slight ingestion of oil is not hazardous. Oil is not hazardous and is H-2 listed.



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Section 5 – Fire Fighting Measures

Flammable:	Yes
Flashpoint:	> 400°F (oil, COC)
Extinguishing Media:	Water fog, foam, carbon dioxide, dry chemical.
Hazardous Combustion Products:	Burning oil and polymer will produce carbon dioxide, carbon monoxide and at temperatures greater than 500°F may produce toxic fumes from perfluorocarbon decomposition.

Section 6 – Accidental Release Measures

Leak and Spill Procedures:	Clean up as soon as possible. Comply with existing laws. Only limited and localized damage is expected by the release of small quantities of oil.
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Section 7 – Handling and Storage

Handling Procedures and Equipment:	Store and handle in a manner to prevent contamination from any source, especially when used in food processing areas, as is covered by FDA Regulations 21 CFR 178.3620 (B) (2). Wash hands and face after handling to avoid transfer of oil onto cigarettes, tobacco, and/or food.
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Section 8 – Exposure Controls/Personal Protection

Engineering Controls:	No TLV assigned. Minimize exposure with good hygiene practices. Ventilation: Provide local exhaust if polymer is heated above 500°F. Avoid extreme heat or open flame.
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Section 9 – Physical and Chemical Properties

Physical State:	Porous solid – oil filled pores
Odor:	Slight oil odor
Specific Gravity:	~ .9 gm/cc
Vapor Pressure:	Oil vapor pressure is < 0.1 mm at 100°F
Boiling Point:	Oil boiling point has a wide range
Melting Point:	~ 350°F
Solubility in water:	Negligible
Other Information:	No information is available

Section 10 – Stability and Reactivity

Chemical Stability:	Stable under ordinary conditions of use and storage.
Incompatibility with other Substances:	None
Reactivity:	Product is stable and will not react with water. Polymerization will not occur. Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, chlorates, nitrates, or peroxides, as this may be hazardous.
Hazardous Decomposition Products:	Under fire conditions: fumes, smoke, carbon monoxide, oxides of sulfur and at temperatures greater than 500°F, decomposition of perfluorocarbon yields toxic gases.

Section 11 – Toxicological Information

Carcinogenicity:	This oil does not contain any ingredients identified as carcinogenic, based on data for similar materials or product components.
Reproductive Toxicity:	No product toxicology data available.



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Section 12 – Ecological Information

Aquatic Toxicity:	Data on the finished product are not available. It is considered to present little danger for aquatic life. Conform to local regulations.
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Section 13 – Disposal Considerations

Waste Disposal:	Consult federal, state and local authorities for proper disposal procedures. Dispose of absorbed oil at an approved waste site or facility.
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Section 14 – Transport Information

	Not regulated under US Department of Transportation.
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Section 15 – Regulatory Information

IARC:	
NTP:	No known carcinogenic ingredients.
EPCRA:	No components on regulatory lists searched.
CA Prop. 65:	
RTK (PA,NJ,MA):	

Section 16 – Other Information

Disclaimer:	The above information is accurate to the best of our knowledge. However, since data safety standards and government regulations are subject to change, and the conditions of handling and use, or misuse, are beyond our control, PhyMet makes no warranty, either expressed or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. User should be satisfied that all current, relevant data for the particular use of this product is available and considered.
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