

MATERIAL SAFETY DATA SHEET



VERSION DATE: 1/07

PAGE 1 OF 4

Section 1 – Chemical Product and Company Identification

PRODUCT NAME:	MicroPoly [®] MPI-2400	
PRODUCT USE:	Lubrication with oil-containing polymer	
MANUFACTURER:	PhyMet, Inc. 75 N. Pioneer Blvd. Springboro, OH 45066 www.micropolylubricants.com	937-743-8061

Section 2 – Composition/Information on Ingredients

INGREDIENTS:	Ingredient	%	CAS Number
	High Molecular Weight Polyethylene	< 55	9002-88-4
	*Synthetic Hydrocarbons & Additives	< 75	Mixture
	Butylated Triphenyl Phosphate	< 0.5	56803-37-3
	Antimony Dialkyldithiocarbamate	< 0.5	15991-76-1
	Triphenyl Phosphate	< 0.3	115-86-6
	*Additive	< 1.0	Mixture

*product formulation is proprietary

Section 3 – Hazards Identification

POTENTIAL HEALTH EFFECTS:	Physical Hazards: Flammable Material
	Health Hazards: None under 400°F See Section 11

Section 4 – First Aid Measures

SKIN CONTACT:	Wash thoroughly with soap and water.
EYE CONTACT:	Flush eyes with running water for at least 15 minutes. Seek medical attention if irritation persists.
INHALATION:	Excessive exposure to vapors should be avoided. Move to fresh air. Seek medical attention.
INGESTION:	Not expected to be a problem, but if ingested, drink 1 or 2 glasses of water and seek medical attention. DO NOT induce vomiting.

MATERIAL SAFETY DATA SHEET



PRODUCT NAME: MICROPOLY[®] MPI-2400

VERSION DATE: 1/07

PAGE 2 OF 4

Section 5 – Fire Fighting Measures

FLAMMABLE:	Yes. Exposure to flame or high temperature may initiate combustion.
FLASHPOINT:	400°F (oil, COC)
EXTINGUISHING MEDIA:	Water fog, foam, carbon dioxide, dry chemical
HAZARDOUS COMBUSTION PRODUCTS:	Carbon monoxide and small amounts of other toxic fumes – i.e., antimony and phosphorous containing chemicals.

Section 6 – Accidental Release Measures

LEAK AND SPILL PROCEDURES:	If oil leaks from product, contain spill and prevent oil from entering sewers or any body of water. Spill may create slipping hazards. Clean up as soon as possible. Absorbent materials and pads can be used. 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:	Keep containers closed. Store and handle in a manner to prevent contamination from any source. Wash hands and face after handling to avoid transfer of oil onto cigarettes, tobacco, and/or food.
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Section 8 – Exposure Control/Personal Protection

ENGINEERING CONTROLS:	Minimize exposure with good hygiene practices and adequate ventilation. Avoid extreme heat or open flame.
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MATERIAL SAFETY DATA SHEET



PRODUCT NAME: MICROPOLY[®] MPI-2400

VERSION DATE: 1/07

PAGE 3 OF 4

Section 9 – Physical and Chemical Properties

PHYSICAL STATE:	Solid, yellow, porous, oil filled polymer
ODOR:	Slight oil odor
SPECIFIC GRAVITY:	~. 90
VAPOR PRESSURE:	N/A
BOILING POINT:	N/A
MELTING POINT:	Polymer softens > 400°F
SOLUBILITY IN WATER:	Not soluble

Section 10 – Stability and Reactivity

CHEMICAL STABILITY:	Stable under normal conditions
INCOMPATIBILITY WITH OTHER SUBSTANCES:	Avoid strong oxidizers, such as chlorates, nitrates, peroxides, liquid chlorine, and concentrated oxygen, as this may be hazardous.
REACTIVITY:	Stable under normal conditions
HAZARDOUS DECOMPOSITION PRODUCTS:	Under fire conditions: fumes, smoke, carbon monoxide, and oxides of phosphorous and antimony at very low concentrations.

Section 11 – Toxicological Information

CARCINOGENICITY:	Nothing listed according to IARC, NTP, and OSHA. The oil contains a small amount of butylated triphenyl phosphate, which can produce paralysis if taken internally. Skin contact for prolonged periods may allow absorption of oil contents. Initial symptoms of over exposure are nausea, diarrhea, and abdominal pain followed by soreness of lower legs and numbness of toes.
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Section 12 – Ecological Information

AQUATIC TOXICITY:	Keep oil out of sewers and watercourses with absorbents or pads. Sweep up or scoop up and remove. Conform to local regulations.
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MATERIAL SAFETY DATA SHEET



PRODUCT NAME: MICROPOLY[®] MPI-2400

VERSION DATE: 1/07

PAGE 4 OF 4

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.

Section 14 – Transport Information

Not regulated under US Department of Transportation

Section 15 – Regulatory Information

SARA:

Regulated under Section 313 of Title III of SARA (Antimony compound)

Ingredient	ACGIH TLV
	TWA
Butylated Triphenyl Phosphate	LD ₅₀ (acute oral): >4640 mg/kg LD ₅₀ (acute derm): >2000 mg/kg
Antimony Dialkydithiocarbamate	LD ₅₀ (oral): 16,400 mg/kg (rats) LD ₅₀ (derm): 16,000 mg/kg (rabbits)
Triphenyl Phosphate	3 mg/M ³

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.