MATERIAL SAFETY DATA SHEET **PEM-50-01-060-LTS**

Version Number 1.2 Revision Date 03/27/2008

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1. PRODUCT AND COMPANY IDENTIFICATION POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012 Telephone : Product Stewardship (440) 930-1395

Telephone Emergency telephone	:	Product Stewardship (440) 930-1395 CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).	
Product name	:	PEM-50-01-060-LTS	
Product code	:	EM10000345	l
Chemical Name	:	Mixture	l
CAS-No.	:	Mixture	l
Product Use	:	Industrial Applications	
			Т

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
Tungsten	7440-33-7	60 - 100

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure.

POTENTIAL HEALTH EFFECTS

Routes of Exposure:	: Inhalation, Ingestion, Skin contact
Acute exposure	
Inhalation Ingestion Eyes Skin	 Particulates, like other inert materials can be mechanically irritating. May be harmful if swallowed. Particulates, like other inert materials can be mechanically irritating. Experience shows no unusual dermatitis hazard from routine handling.
Chronic exposure Medical Conditions Aggravated by Exposure:	Refer to Section 11 for Toxicological Information.None known.

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		4. FIRST AID MEASURES
Inhalation	:	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. When symptoms persist or in all cases of doubt seek medical advice.
Ingestion	:	Do not induce vomiting without medical advice. When symptoms persist or in all cases of doubt seek medical advice.
Eyes	:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, seek medical attention.
Skin	:	Wash off with soap and plenty of water. If skin irritation persists seek medical attention.
		5. FIRE-FIGHTING MEASURES
Flash point	:	Not applicable
Flammable Limits		
Upper explosion limit	:	Not applicable
Lower explosion limit	:	Not applicable
Autoignition temperature	:	Not applicable
Suitable extinguishing media	:	Carbon dioxide blanket, Water spray, Dry powder, Foam.
Special Fire Fighting Procedures	:	Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.
Unusual Fire/Explosion Hazards	:	Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.
	6. A	CCIDENTAL RELEASE MEASURES
Personal precautions	:	Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.
Environmental precautions	:	Should not be released into the environment. The product should not be allowed to enter drains, water courses or the soil.
Methods for cleaning up	:	Clean up promptly by sweeping or vacuum. Package all material in plastic, cardboard or metal containers for disposal. Refer to Section 13 of this MSDS for proper disposal methods.
		7. HANDLING AND STORAGE
Handling	:	Take measures to prevent the build up of electrostatic charge. Heat only in areas with appropriate exhaust ventilation.
Storage	:	Keep containers dry and tightly closed to avoid moisture absorption

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8.]	EXPOSURE	CONTROLS/PERSONAL I	PROTECTION	
Respiratory protection	: N	lo personal respiratory protecti	ve equipment normally	required.
Eye/Face Protection	: S	afety glasses with side-shields		
Hand protection	: P	rotective gloves		
Skin and body protection	: L	ong sleeved clothing		
Additional Protective Measures	: S	afety shoes		
General Hygiene Considerations		Iandle in accordance with good ractice. Wash hands before br		
Engineering measures		leat only in areas with appropri ppropriate exhaust ventilation		Provide
Exposure limit(s)				
Components	Value	Exposure time	Exposure type	List:
Tungsten	5 mg/m3	Time Weighted Average (TWA):	as W	ACGIH
	10 mg/m3	Short Term Exposure Limit (STEL):	as W	ACGIH
	5 mg/m3	Time Weighted Average (TWA):	as W	MX OEL
	10 mg/m3	Short Term Exposure Limit (STEL):	as W	MX OEL
	9. PHYSI	CAL AND CHEMICAL PRO	PERTIES	
Form	: Solid			applicable
Appearance				determined
Color		PIGMENT Bulk d		established
Odour	: Very			applicable
Melting point/range				applicable
Boiling Point:		applicable pH	: Not	applicable
Water solubility	: Insol	luble		
	10. 5	STABILITY AND REACTIV	ITY	
Stability	: S	table.		
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Conditions to avoid	:	To avoid thermal decomposition, do not overheat.
Incompatible Materials	:	Strong acids, oxidizing and reducing agents
Hazardous decomposition products	:	Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.

11. TOXICOLOGICAL INFORMATION

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Toxicity Overview

This product contains the following components which in their pure form have the following characteristics:

CAS-No.	Chemical Name	Effect	Target Organ
7440-33-7	Tungsten	Systemic effects	Eyes, Skin, Respiratory system, blood and blood forming system.

Additional Health Hazard Information:

Tungsten 7440-33-7 Prolonged or repeated breathing of this material may result in chronic bronchitis. Exposure to freshly formed fumes from heated metal may cause "metal fume fever".

12. ECOLOGICAL INFORMATION

Persistence and degradability	: Not readily biodegradable.
Environmental Toxicity	: Chemicals are not readily available as they are bound within the polymer matrix.
Bioaccumulation Potential	: Chemicals are not readily available as they are bound within the polymer matrix.
Additional advice	: Not applicable
	13. DISPOSAL CONSIDERATIONS
Product	: Like most thermoplastic plastics the product can be recycled. Where possible recycling is preferred to disposal or incineration. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.
Contaminated packaging	: Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.
	14. TRANSPORT INFORMATION

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U.S. DOT Classification	: Not regulated for transportation.
ICAO/IATA (air)	: Refer to specific regulation.
IMO / IMDG (maritime)	: Refer to specific regulation.
	15. REGULATORY INFORMATION
US Regulations:	
OSHA Status	: Classified as hazardous based on components.
TSCA Status	: All components of this product are listed on or exempt from the TSCA Inventory.
US. EPA CERCLA Hazardou	s Substances (40 CFR 302)
Not applicable	
California Decessivian	Net and leads
California Proposition 65	: Not applicable
SARA Title III Section 302 E	stremely Hazardous Substance
	identified under this section, this product is Not Applicable under this regulation
emess speeme enomedis are	activited under and section, and product is root repricable under and regulate
SARA Title III Section 313 To	avic Chemicals:
	identified under this section, this product is Not Applicable under this regulation
-	identified under uns section, uns product is Not Applicable under uns regulate
Canadian Regulations:	
National Pollutant Rele	ase Inventory (NPRI)
Not applicable	
WHMIS Classification	: Not controlled.
DSL	: All components of this product are on the Canadian Domestic
	Substances List (DSL) or are exempt.

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Australia AICS	: Not determined
China IECS	: Listed
Europe EINECS	: Listed
Japan ENCS	: Not determined
Korea KECI	: Listed
Philippines PICCS	: Not determined

16. OTHER INFORMATION

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.