

MATERIAL SAFETY DATA SHEET

### PEM-50-01-110-LTS

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### 1. PRODUCT AND COMPANY IDENTIFICATION

#### POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

NON-EMERGENCY TELEPHONE	:	Product Stewardship (440)-930-1395
Emergency telephone number	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	PEM-50-01-110-LTS
Product code	:	EM10003572
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

#### 2. COMPOSITION/INFORMATION ON HAZARDOUS 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. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating or processing. The end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. See sections 8 and 11 for special precautions.

#### POTENTIAL HEALTH EFFECTS

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



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	4. FIRST AID MEASURES
Inhalation	<ul> <li>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.</li> </ul>
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 a least 15 minutes. If eye irritation persists, seek medical attention.
Skin	: Wash off with soap and plenty of water. If skin irritation persists see medical attention.
	5. FIRE-FIGHTING MEASURES
Flash point	: Not applicable
Flammable Limits Upper explosion limit Lower explosion limit Autoignition temperature Suitable extinguishing media	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not relevant</li> <li>water, dry powder, foam, carbon dioxide (CO2).</li> </ul>
Special Fire Fighting Procedures Unusual Fire/Explosion Hazards	<ul> <li>Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.</li> <li>None</li> </ul>
	6. ACCIDENTAL 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 no 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 1 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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	a	nd contamination.	Keep in a di	ry, cool place.	
8. H	EXPOSURE	CONTROLS / PE	RSONAL ]	PROTECTION	
Respiratory protection	: N	lo personal respirato	ory protectiv	ve equipment normal	lly required.
Eye/Face Protection	: S	afety glasses with s	ide-shields.		
Hand protection	: P	rotective gloves.			
Skin and body protection	: L	ong sleeved clothin	g.		
Additional Protective Measures	: S	afety shoes.			
General Hygiene Considerations				industrial hygiene ar t the end of workday	
Engineering measures		leat only in areas wi ppropriate exhaust v		ate exhaust ventilation at machinery.	on. Provide
Exposure limit(s)					
Components	Value	Exposure ti	me	Exposure type	List:
Tungsten	5 mg/m3	Time Weighted (TWA):	-	as W	ACGIH
	10 mg/m3	Short Term Expos (STEL):		as W	ACGIH
	9. PHYSI	CAL AND CHEMI	ICAL PRO	PERTIES	
Form	: Solic	ı ets, slabs			Not applicable. Not determined
Appearance Color		PIGMENT	Bulk de		Not established
Odor		v faint			Not applicable
Melting point/range		determined			Not applicable
Boiling Point:		applicable	pH		Not applicable
Water solubility	: Insol	11	pm	• •	
	10. 5	STABILITY AND	REACTIV	ITY	
Stability	: S	table.			
Hazardous Polymerization	n : V	Vill not occur.			
Conditions to avoid	: T	o avoid thermal dec	composition	, do not overheat.	
Incompatible Materials	: S	trong acids, oxidizi	ing and red	ducing agents.	



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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 matrix of the polymer.
Bioaccumulation Potential	: Chemicals are not readily available as they are bound within the matrix of the polymer.
Additional advice	: Not applicable
	13. DISPOSAL CONSIDERATIONS
Product	: Like most thermoplastics 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
U.S. DOT Classification	: Not regulated for transportation.



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ICAO/IATA	: Not regulated for transportation.
IMO / IMDG	: Not regulated for transportation.
	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 Hazardous	Substances (40 CFR 302)
Not applicable	
California Proposition 65	: This product does not contain a substance listed by California Prop 65.
SARA Title III Section 302 Extra	remely Hazardous Substance
NT / 11 11	
Not applicable	
SARA Title III Section 313 Tox	ic Chemicals:
	ic Chemicals: Not applicable
SARA Title III Section 313 Tox	
SARA Title III Section 313 Tox Canadian Regulations:	Not applicable
SARA Title III Section 313 Tox Canadian Regulations: WHMIS Classification	<ul> <li>Not applicable</li> <li>Not controlled.</li> <li>All components of this product are on the Canadian Domestic</li> </ul>
SARA Title III Section 313 Tox Canadian Regulations: WHMIS Classification DSL	<ul> <li>Not applicable</li> <li>Not controlled.</li> <li>All components of this product are on the Canadian Domestic</li> </ul>
SARA Title III Section 313 Tox Canadian Regulations: WHMIS Classification DSL National Inventories:	<ul> <li>Not applicable</li> <li>Not controlled.</li> <li>All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.</li> </ul>
SARA Title III Section 313 Tox Canadian Regulations: WHMIS Classification DSL National Inventories: Australia AICS	<ul> <li>Not applicable</li> <li>Not controlled.</li> <li>All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.</li> <li>Not determined.</li> </ul>



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Korea KECI : Not determined.

**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.