

## MATERIAL SAFETY DATA SHEET

## *PEM-15-01-035 LTS*

Version Number 1.0 Revision Date 07/08/2003

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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-15-01-035 LTS
Product code	:	EM10004271
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

Routes of Exposure:	: 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	: Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. When symptoms persist or in all case doubt seek medical advice.	s of
Ingestion	: Do not induce vomiting without medical advice. When symptom persist or in all cases of doubt seek medical advice.	5
Eyes	: Rinse immediately with plenty of water, also under the eyelids, for least 15 minutes. If eye irritation persists, seek medical attention.	r at
Skin	: Wash off with soap and plenty of water. If skin irritation persists medical attention.	seek
	5. FIRE-FIGHTING MEASURES	
Flash point	: Not applicable	
Flammable Limits		
Upper explosion limit	: Not applicable	
Lower explosion limit	: Not applicable	
Autoignition temperature	: Not relevant	
Suitable extinguishing media	: water, dry powder, foam, carbon dioxide (CO2).	
Special Fire Fighting Procedures	: Fullface self-contained breathing apparatus (SCBA) used in positi pressure mode should be worn to prevent inhalation of airborne contaminants.	ve
Unusual Fire/Explosion Hazards	: None	
	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 be allowed to enter drains, water courses or the soil.	not
Methods for cleaning up	: Clean up promptly by sweeping or vacuum. Package all material plastic, cardboard or metal containers for disposal. Refer to Section of this MSDS for proper disposal methods.	
	7. HANDLING AND STORAGE	
Handling	: Take measures to prevent the build up of electrostatic charge. He only in areas with appropriate exhaust ventilation.	at
Storage	: Keep containers dry and tightly closed to avoid moisture absorption	on



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and contamination. Keep in a dry, cool place.					
8. E	XPOSURE	CONTROLS / P	ERSONAL	PROTECTION	
Respiratory protection	: N	No personal respiratory protective equipment normally required.			
Eye/Face Protection	: S	afety glasses with	side-shields.		
Hand protection	: P	rotective gloves.			
Skin and body protection	: L	ong sleeved cloth	ing.		
Additional Protective Measures	: S	: Safety shoes.			
General Hygiene Considerations		: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.			
Engineering measures		leat only in areas ppropriate exhaus		ate exhaust ventilat at machinery.	tion. Provide
Exposure limit(s)					
Components	Value	Exposure time		Exposure type	e List:
Tungsten	5 mg/m3	Time Weighted (TWA	d Average	as W	ACGIH
	10 mg/m3	Short Term Exp (STEL	osure Limit	as W	ACGIH
Letter					
	9. PH 1510	CAL AND CHEN	IICAL PRO	PERTIES	
Form	: Solic	1	Evapor	ation rate :	Not applicable.
Appearance	: Pelle	ets, slabs		c Gravity :	Not determined
Color		PIGMENT	Bulk de	•	Not established
Odor	•	v faint		pressure :	Not applicable
Melting point/range		determined	1	density :	Not applicable
Boiling Point: Water solubility	: Not a : Insol	applicable luble	рН	:	Not applicable
10. STABILITY AND REACTIVITY					
	10. 2		5 NEAC11V		
Stability : Stable.					
Hazardous Polymerization	1 : V	Vill not occur.			
Conditions to avoid	: T	o avoid thermal d	ecompositior	, do not overheat.	
Incompatible Materials : Strong acids, oxidizing and reducing 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	5. 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	Sub	stances (40 CFR 302)
Not applicable		
California Proposition 65 SARA Title III Section 302 Ext	: trem	This product does not contain a substance listed by California Prop 65
Not applicable	Tenk	
SARA Title III Section 313 To:	via (	Themicals
Not applicable Canadian Regulations:	ue c	
National Pollutant Relea	ise Ir	nventory (NPRI)
Not applicable		
WHMIS Classification	:	Not controlled.
DSL	:	All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.
National Inventories:		
Australia AICS	:	Listed.
China IECS	:	Listed.
		Not determined.
Europe EINECS	:	The determined.

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Korea KECI : Listed.	
Philippines PICCS : Listed.	
16. 07	THER INFORMATION
processing, storage, transportation, disposal specification. The information relates only to	n given is designed only as a guidance for safe handling, use, and release and is not to be considered a warranty or quality o the specific material designated and may not be valid for such o ther materials and/or in any particular process or processing

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