

MATERIAL SAFETY DATA SHEET

PEM-15-07-075-LTS

Version Number 1.0 Revision Date 03/11/2004

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

NON-EMERGENCY TELEPHONE	:	Product Stewardship (770) 271-5902
Emergency telephone number	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	PEM-15-07-075-LTS
Product code	:	EM10005364
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON 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	 Resin particles, like other inert materials, can be mechanically irritating. May be harmful if swallowed. Resin particles, like other inert materials, are mechanically irritating to ever
Skin	eyes. : 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 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 seel 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, foamnone.
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 12 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	dry, cool place.	
8. E	XPOSURE	CONTROLS / PERSONAL	PROTECTION	
Respiratory protection	: N	lo personal respiratory protec	tive equipment normally	required.
Eye/Face Protection	: S	afety glasses with side-shield	s.	
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 goo Vash hands before breaks and		safety practice.
Engineering measures		leat only in areas with approp ppropriate exhaust ventilation		Provide
Exposure limit(s)				
Components	Value	Exposure time	Exposure type	List:
Tungsten	5 mg/m3	Time Weighted Average	as W	ACGIH
		(TWA):		
	10 mg/m3	Short Term Exposure Limit (STEL):	as W	ACGIH
	9. PHYSI	CAL AND CHEMICAL PR	OPERTIES	
Form	: Solic			t applicable
Appearance Color	: Pelle		2	t determined t established
Odor				t applicable
Melting point/range	•	1		t applicable
Boiling Point:		applicable pH		t applicable
Water solubility	: Insol			, appnease
	10. 9	STABILITY AND REACT	VITY	
Stability	: S	table.		
Hazardous Polymerization	n : V	Vill not occur.		
Conditions to avoid		Leep away from oxidizing age ecomposition, do not overhea		avoid thermal
Incompatible Materials	: Iı	ncompatible with strong acid	and oxidizing 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
ersistence and degradability	: Not readily biodegradable.
invironmental Toxicity	: Chemicals are not readily available as they are bound within the matrix of the polymer.
ioaccumulation Potential	: Chemicals are not readily available as they are bound within the matrix of the polymer.
dditional advice	: No data available
	13. DISPOSAL CONSIDERATIONS
roduct	: 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
J.S. DOT Classification	: Not regulated for transportation.



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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 Hazardous S	Subs	stances (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 Extr	rem	ely Hazardous Substance
Not applicable		
SARA Title III Section 313 Tox	ic C	hemicals:
Not applicable Canadian Regulations:		
National Pollutant Release	se Ir	iventory (NPRI)
Not applicable		
WHMIS Classification	:	Not controlled.
Winnib Clussification		
DSL	:	All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.
	:	
DSL	:	
DSL National Inventories:		Substances List (DSL) or are exempt.

	POLYONE CORPORA	TION	PolyOne.
Yersion Number 1.0 Page 6 of 6 Revision Date 03/11/2004 Print Date 11/14/2013 Japan ENCS : Not determined Korea KECI : Listed Philippines PICCS : Listed Information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belied 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 when used in combination with any other materials and/or in any particular process or processing	IATERIAL SAFETY DATA SH	EET	
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