

MATERIAL SAFETY DATA SHEET GRV-NP-110-W-Nat-MIL

Version Number 1.3 Revision Date 06/11/2004

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

Telephone Emergency telephone number	:	Product Stewardship (440) 930-1395 CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	GRV-NP-110-W-Nat-MIL
Product code	:	EM10005495
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

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	: Refer to Section 11 for Toxicological Information.	
Medical Conditions Aggravated by Exposure:	: None known.	
4. FIRST AID MEASURES		



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Inhalation	: Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. When symptoms persist or in all cases o 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 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 sower explosion limit Autoignition temperature Suitable extinguishing media	 Not applicable Not applicable Not applicable 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
Unusual Fire/Explosion Hazards	 contaminants. Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.
	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 and contamination. Keep in a dry, cool place.



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Respiratory protection	: N	No personal respiratory protective equipment normally required.			
Eye/Face Protection	: S	afety glasses with side-sh	ields.		
Hand protection	: P	Protective gloves.			
Skin and body protection	: I	long sleeved clothing.			
Additional Protective Measures	: S	Safety shoes.			
General Hygiene Considerations		: Handle in accordance with good industrial hygiene and safety pra Wash hands before breaks and at the end of workday.			
Engineering measures : Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery.					
Exposure limit(s)					
Components	Value	Exposure time	Exposure type	List:	
Tungsten	5 mg/m3	Time Weighted Averag (TWA):		ACGIH	
	10 mg/m3	Short Term Exposure Li (STEL):	mit as W	ACGIH	
	9. PHYSI	CAL AND CHEMICAL	PROPERTIES		
Form Appearance Color Odor Melting point/range Boiling Point: Water solubility	: Solia : Pella : NO : Very : Not : Not				
10. STABILITY AND REACTIVITY					
Stability	: S	stable.			
Hazardous Polymerization	1 : V	Vill not occur.			
Conditions to avoid	: 1	To avoid thermal decompo	sition, do not overheat.		
Incompatible Materials	: S	strong acids, oxidizing an	d reducing agents		
Hazardous decomposition	: 0	Carbon dioxide (CO2), car	bon monoxide (CO), oxi	des of nitrogen	



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products

(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 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				
U.S. DOT Classification ICAO/IATA (air)	Not regulated for transportation.Refer to specific regulation.			
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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	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 Extr	em	ely Hazardous Substance				
Not applicable						
SARA Title III Section 313 Tox	ic C	Chemicals:				
Not applicable Canadian Regulations:						
National Pollutant Releas	National Pollutant Release 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.				
National Inventories:						
Australia AICS	:	Not determined				
China IECS	:	Listed				
Europe EINECS	:	Listed				
Japan ENCS	:	Not determined				



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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 when used in combination with any other materials and/or in any particular process or processing conditions.