GRV-NP-069-BMX-Nat

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## SAFETY DATA SHEET

### GRV-NP-069-BMX-Nat

Section 1. Identification		
GHS product identifier Chemical name CAS number	:	GRV-NP-069-BMX-Nat Mixture Mixture
Other means of identification Product type	:	EM10005664 solid
<u>Relevant identified uses of the subs</u> Product use	stance :	or mixture and uses advised against Industrial applications. Plastics.
Supplier's details	:	POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012
		1 (440) 930-1000 or 1 (866) POLYONE
Emergency telephone number (with hours of operation)	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

## Section 2. Hazards identification

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. After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status	:	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	:	Not classified.
GHS label elements		
Signal word	:	No signal word.
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Hazard statements

No known significant effects or critical hazards.

### **Precautionary statements**

General	:	Not applicable.
Prevention	:	Not applicable.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	:	None known.
Hazards not otherwise classified	:	None known.

## Section 3. Composition/information on ingredients

:

Substance/mixture	:	Mixture
Chemical name	:	Mixture
Other means of identification	:	EM10005664

### CAS number/other identifiers

Ingredient name	%	CAS number
Tungsten (>1.5 microns)	75 - 90	7440-33-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

#### **Description of necessary first aid measures**

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses.
Inhalation	:	Get medical attention if irritation occurs. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of



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	inhalation of decomposition products in a fire, symptoms may be
	delayed. The exposed person may need to be kept under medical
	surveillance for 48 hours.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated
	clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. Remove victim to fresh air and keep at
	rest in a position comfortable for breathing. If material has been
	swallowed and the exposed person is conscious, give small quantities
	of water to drink. Do not induce vomiting unless directed to do so by
	medical personnel. Get medical attention if symptoms occur.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact Inhalation Skin contact Ingestion	::	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Over-exposure signs/symptoms		
Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.
Indication of immediate medical att	entio	n and special treatment needed, if necessary
Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	:	No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media

Suitable extinguishing media : In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>.



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Unsuitable extinguishing media	:	None known.
Specific hazards arising from the chemical	:	No specific fire or explosion hazard.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides
Special protective actions for fire- fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel For emergency responders	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for contain	<u>ment a</u>	nd cleaning up
Small spill	:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.



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## Section 7. Handling and storage

### Precautions for safe handling

Protective measures Advice on general occupational hygiene	:	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### **Control parameters**

### **Occupational exposure limits**

Ingredient name		Exposure limits
Tungsten (>1.5 microns)		NIOSH REL (1994-06-01) TWA 5 mg/m3 (as W) STEL 10 mg/m3 (as W)
Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

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Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

### **Appearance**

Physical state	:	solid [Pellets.]
Color	:	NO PIGMENT
Odor	:	Faint odor.
Odor threshold	:	Not available.
рН	:	Not available.
Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Not available.
Burning time	:	Not available.
Burning rate	:	Not available.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.



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Lower and upper explosive (flammable) limits	:	<b>Lower:</b> Not available. <b>Upper:</b> Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	Not available.
Solubility	:	Not available.
Solubility in water	:	insoluble in water.
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Dynamic: Not available.
-		Kinematic: Not available.

## Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Keep away from extreme heat and oxidizing agents.
Incompatible materials	:	Keep away from strong acids. Oxidizer.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 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.

### Information on toxicological effects

### Acute toxicity

Remarks - Oral:	No applicable toxicity data
<b>Remarks - Inhalation:</b>	No applicable toxicity data
Remarks - Dermal:	No applicable toxicity data
Conclusion/Summary	: Mixture.Not fully tested.



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### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Tungsten (>1.5 microns)	Eyes - Mild	Rabbit		24 hrs	-
	irritant Skin - Mild	Dabbit		24 has	
	irritant	Rabbit		24 hrs	-
Conclusion/Summary	IIIItalit				
Skin	: N	lixture.Not fu	llv tested.		
Eyes		lixture.Not fu			
Respiratory		lixture.Not fu			
Sensitization					
Conclusion/Summary					
Skin	: N	lixture.Not fu	lly tested.		
Respiratory	: N	lixture.Not fu	lly tested.		
<b>Mutagenicity</b>					
Conclusion/Summary	: N	lixture.Not fu	lly tested.		
<b>Carcinogenicity</b>					
Conclusion/Summary	: N	lixture.Not fu	lly tested.		
<b><u>Reproductive toxicity</u></b>					
Conclusion/Summary	: N	lixture.Not fu	lly tested.		
<b>Teratogenicity</b>					
Conclusion/Summary	: N	lixture.Not fu	lly tested.		
Specific target organ toxicit Not available.	ty (single exposu	<u>re)</u>			
Specific target organ toxicit Not available.	ty (repeated exp	<u>osure)</u>			
Aspiration hazard Not available.					
Information on likely routes exposure	sof : N	ot available.			



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#### Potential acute health effects Eve contact No known significant effects or critical hazards. : Inhalation No known significant effects or critical hazards. : Skin contact No known significant effects or critical hazards. : Ingestion No known significant effects or critical hazards. : Symptoms related to the physical, chemical and toxicological characteristics Eye contact No specific data. : Inhalation : No specific data. No specific data. **Skin contact** : No specific data. Ingestion : Delayed and immediate effects as well as chronic effects from short and long-term exposure Short term exposure Potential immediate effects Not available. : **Potential delayed effects** Not available. : Long term exposure **Potential immediate effects** Not available. : Potential delayed effects Not available. • **Potential chronic health effects** Mixture.Not fully tested. **Conclusion/Summary** : General No known significant effects or critical hazards. : Carcinogenicity No known significant effects or critical hazards. : Mutagenicity No known significant effects or critical hazards. : Teratogenicity : No known significant effects or critical hazards. **Developmental effects** : No known significant effects or critical hazards. **Fertility effects** No known significant effects or critical hazards. : Numerical measures of toxicity Acute toxicity estimates

Not available.



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## Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result		Species	Exposure
Tungsten (>1.5 microns)				
Remarks - Acute - Fish:		able toxicity data		
Remarks - Acute - Aquatic	No applica	able toxicity data		
invertebrates.:				
Remarks - Acute - Aquatic	No applica	able toxicity data		
plants:				
Remarks - Chronic - Fish:	<u></u>	able toxicity data		
Remarks - Chronic -	No applica	able toxicity data		
Aquatic invertebrates.:				
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Remarks - Acute - Aquatic	Chemicals	are not readily ava	ailable as they are bound w	thin the polymer matrix.
invertebrates.:				
Conclusion/Summary	:		ot readily available as they	are bound within the
		polymer matrix.		
Persistence and degradability	-			
Conclusion/Summary		Chamicals are n	ot readily available as they	are bound within the
Conclusion/Summary	:	polymer matrix.		
		porymer maurix.		
Conclusion/Summary	:	Chemicals are n	ot readily available as they	are bound within the
Conclusion, Summary	•	polymer matrix.		
		F ,		
<b>Bioaccumulative potential</b>				
Not available.				
<u>Mobility in soil</u>				
Soil/water partition coefficie	nt :	Not available.		
(KOC)		<b>NT 1</b> · ·	ст сс	
Other adverse effects	:	No known signi	ficant effects or critical haz	ards.

## Section 15. Disposal considerations

Disposal methods	:	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products
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should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

## Section 14. Transport information

U.S.DOT 49CFR Ground/Air/Water	:	Not regulated for transportation.
International Air ICAO/IATA	:	Not classified as dangerous goods under transport regulations.
International Water IMO/IMDG	:	Not classified as dangerous goods under transport regulations.

## Section 15. Regulatory information

U.S. Federal regulations	: United States - TSCA 12(b) - Chemical export notification: None of the components are listed.
	United States - TSCA 4(a) - Final Test Rules: Not listed
	United States - TSCA 4(a) - ITC Priority list: Not listed
	United States - TSCA 4(a) - Proposed test rules: Not listed
	United States - TSCA 4(f) - Priority risk review: Not listed
	United States - TSCA 5(a)2 - Final significant new use rules: Not
	listed
	<b>United States - TSCA 5(a)2 - Proposed significant new use rules:</b> Not listed
	United States - TSCA 5(e) - Substances consent order: Not listed
	United States - TSCA 6 - Final risk management: Not listed
	United States - TSCA 6 - Proposed risk management: Not listed

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	United States - TSCA 8(a) - Chemical risk rules: Not listed United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined United States - TSCA 8(a) - Preliminary assessment report	
	(PAIR): Listed Tungsten (>1.5 microns)	
	United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed	
	United States - TSCA 8(d) - Health and safety studies: Not listed	
	United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Not listed	
	United States - EPA Clean water act (CWA) section 311 - Hazardous substances: Not listed	
	United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed	
	United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances: Not listed	
	United States - Department of commerce - Precursor chemical:	
	Not listed	
11 <b>2</b> (b)	Not listed	

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	:	Not listed
Clean Air Act Section 602 Class I	:	Not listed
Substances Clean Air Act Section 602 Class II	:	Not listed
Substances DEA List I Chemicals (Precursor	:	Not listed
Chemicals) DEA List II Chemicals (Essential	:	Not listed
Chemicals)		

### US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

### <u>SARA 311/312</u>

Classification

: Not applicable.

### **Composition/information on ingredients**

Name	%	Classification
Tungsten (>1.5 microns)	75 - 90	AH

#### <u>SARA 313</u>

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Not applicable.

State regulations		
Massachusetts	:	None of the components are listed.
New York	:	None of the components are listed.
New Jersey	:	The following components are listed: Tungsten (>1.5 microns) Barium sulfate
Pennsylvania	:	The following components are listed: Tungsten (>1.5 microns)
		Barium sulfate
<u>California Prop. 65</u> This product does not require a Safe Ha	arboı	warning under California Prop. 65.
United States inventory (TSCA 8b)	:	All components are listed or exempted.
Canada inventory	:	All components are listed or exempted.
International regulations		
nventory list		
Australia	:	All components are listed or exempted
Australia	•	All components are listed or exempted.
Canada	:	All components are listed or exempted.
	:	
Canada	:	All components are listed or exempted.
Canada China	:	All components are listed or exempted. All components are listed or exempted.
Canada China Europe inventory		All components are listed or exempted. All components are listed or exempted. All components are listed or exempted.
Canada China Europe inventory Japan		All components are listed or exempted. All components are listed or exempted. All components are listed or exempted. Not determined.
Canada China Europe inventory Japan New Zealand		All components are listed or exempted. All components are listed or exempted. All components are listed or exempted. Not determined. All components are listed or exempted.
Canada China Europe inventory Japan New Zealand Philippines		All components are listed or exempted. All components are listed or exempted. All components are listed or exempted. Not determined. All components are listed or exempted. Not determined.
Canada China Europe inventory Japan New Zealand Philippines Republic of Korea		All components are listed or exempted. All components are listed or exempted. All components are listed or exempted. Not determined. All components are listed or exempted. Not determined. All components are listed or exempted.

## Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	/	0
Flammability		0
Physical hazards		0

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Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual. History

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:	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine
	pollution)
	UN = United Nations
:	Not available.
	:

#### Notice to reader

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