JSP Resins LLC 1285 Drummers Lane Wayne, PA 19087 MSDS No G000692-1-OSHA-AE

MSDS CLASS H Ver. No. 4

Ver. Date January 7 2011

IMPORTANT: Read this MSDS before handling and disposing of this product and pass this information on to the employees, customers, and users of this product. This product is covered by the OSHA Hazard Communication Rule and this document has been prepared in accord with the MSDS requirements of this rule.

			. General					
Trade Name	ARPAK® EXPANDED POLYETHYLE	NE (EPE) BEAD	Telephone Numbe	rs:				
		, ,	EMERGENCY					
Other Company Name	s This document covers all me	mbers of the	800-424-9300	CHEMTREC				
	series of products identified a		610-651-8600	JSP Resins LLC				
	Expanded Polyethylene (EPE		010-031-0000	obi itesiiis EEC				
	G000692-001 through G0006							
Cumamuma	ARPAK® EPE Beads	32-023	CUSTOMER SERV	NOT.				
Synonyms	ARPAR EFE Beaus	ARPAN EFE Dedus		Information Only				
Other Industry Names	None		610-651-8616	iniornation Only				
Chemical Family				nor Chinning Namo				
Chemical Family	Organic polymers		DOT Hazardous Material Proper Shipping Name Not regulated					
Generic Name	Ethylene Homopolymer		ard Class	DOT Reportable Quantity				
Ocherio Manie	Eurylene Homopolymer	Not regula		N/AP				
CAS No.	(See Sec. 9 JSP Material I.D		UN/NA ID No.	N/AP				
	Components)							
	,	2. Sumr	nary of Hazards					
Signal Word	CAUTION							
Physical Hazards	Slipping hazard if spilled on hard sn	nooth walking s	urface					
Acute Health Effects	Slight inhalation hazard - particulate	•						
(Short Term)	Dust may be an eye irritant	5/uusi						
(Short reini)	No data found; no expected ingestion	on hazard						
	No data found; no expected ingestic							
			1					
	No data found; no expected skin absorption hazard (See Section 4 - Health Hazards)							
	,							
	No appropriate human or animal da		exist on adverse chr	ronic nealth effects from repeated				
(Long-Term)	or prolonged exposure to this material							
	Repeated or prolonged breathing of		and Explosion					
Flash Point	Autoignition Temperature	Flammab	•					
N/AP	GT >600 °F	Lower:	N/AP					
	1	Upper:	N/AP					
Fire and Explosion	Heat from fire may melt, decompose, and generate flammable vapors. When mixed with air and exposed to ignition							
Hazard		•		heavier than air. May travel long distances				
	along the ground before igniting and flashing back to vapor source. Melting alone may cause steam explosion							
Forting proving being as Manadia	on contact with water.							
Extinguishing Media	Water							
	CO2							
	Dry chemical Foam							
Extinguishing Media	No additional information available							
Use Comment	No additional imormation available							
Special Firefighting	Do not enter fire area without prope	r protection (S	ee Section 12 - Physi	cal and Chemical Data - Hazardous				
Procedures	Do not enter fire area without proper protection. (See Section 12 - Physical and Chemical Data - Hazardous Decomposition Products). Fight fire from a safe distance/protected location. Walking surface contact results in							
i roccuures	. , ,		•	n to "dig" into hot molten mass from outside to				
open up. Cool interior/prevent reignition; spray/fog for surface cooling. Keep above burning material.  Molten material forms flaming drops after igniting. Notify authorities if liquid enters sewer/public waters.								
	Motter material forms harning drops	and igniting.	i tomy authornes if hy	aid citiers sewer/public waters.				

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FOR DISCLAIMER OF LIABILITY, SEE THE STATEMENT ON FINAL PAGE

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			4. Hea	alth Haza	rds			
Summary of Acute	Dust, if generated from t	his material, may	y cause res	spiratory i	ritation following	an excessiv	e inhalation exposure.	
Hazards	Some eye irritation is also possible following exposure to the dust.							
ROUTE OF	SIGNS AND SYMPTOM	IS					PRIMARY	
EXPOSURE							ROUTE(S)	
Inhalation	Dust from this product m	ay cause respira	atory irritati	on followi	ng an excessive	inhalation	Yes	
	exposure. Follow exposu	ure limits given o	n this mate	erial safety	data sheet.			
Eye Contact	Dust from this product m						Yes	
Skin Absorption	Although no appropriate	human or anima	al health eff	fects data	are known to ex	ist, this	No	
•	material is not expected to be a health hazard by skin absorption.							
Skin Irritation	Although no appropriate human or animal health effects data are known to exist, this No							
	material is not expected to be a skin irritant.							
Ingestion	Although no appropriate human or animal health effects data are known to exist, this No							
<b>3</b>	material is not expected to be an ingestion hazard.							
Summary of Chronic	No appropriate human or animal data are available on the chronic health effects from prolonged							
Hazards	or repeated exposure to						3	
	Repeated or prolonged inhalation exposure to dusts and particulates of this material should be avoided.							
	This material contains tra	•						
Special Health Effects	This material or its emiss						3	
		, ,	•		d Other Control		. can mig amount,	
Respiratory	NIOSH/MSHA approved						nerated	
,	when handling this mate		pirator one	u.u 20 uo.	, a ab ab pa.	arato lo go		
Eye	Dust service goggles sh		orevent me	chanical i	niury or other irri	tation to eve	s due to airborne	
_, ~	particles which may resu				injury or outer are	idiloii to oyo		
Skin					in skin contact	nractice goo	d personal hygiene. Wash	
O.I.III	•						. , , ,	
Engineering Controls	hands and other exposed areas with mild soap and water before eating, drinking, smoking, and when leaving work.  ols No special ventilation is usually required to meet exposure standard(s) beyond that needed for normal comfort control.							
Other Hygienic	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet facilities. Promptly							
Practices	remove soiled clothing/wash thoroughly before reuse. Shower after work using plenty of soap and water.							
							ted conditions of normal use.	
Other Work Francisco	110 opeoiai Work praedec				ure Limits	idor diritioipa	ted conditions of normal dec.	
Substance		Source	Date	Type	Value/Units	Time	Skin	
Nuisance Particulates		ACGIH	1992	TWA	10MG/M3	8 HRS	No	
Particulates Not Otherw	rise Regulated	OSHA	1989	TWA	15MG/M3	8 HRS	No	
(Total Dust)	ioo regulatoa	001111	1000		101110/1110	01110	110	
Particulates Not Otherw	rise Regulated	OSHA	1989	TWA	5 MG/M3	8 HRS	No	
(Respirable Fraction)	ioo i togalatoa	00			0 1110/1110	00		
Carbon Black		ACGIH	1992	TWA	3.5MG/M3	8 HRS	No	
		OSHA	1989	TWA	3.5MG/M3	8 HRS	No	
#There may be OSHA F	PELS and/or ACGIH TLV	s for one or more	e compone	nts which	are trade secret	s. Chemical i	dentities will be revealed	
,	an emergency, or to pur							
Industrial Hygiene	No additional Occupation				•			
Comments	·	·						
		•	7. Emerge	ncy and F	irst Aid			
Inhalation	Remove victim to fresh a					f breathing d	ifficulty persists	
	beyond 15 minutes.			J ,		3 :	3 p =	
Eye Contact	In case of eye contact with this solid material, immediately rinse with clean water for 20-30 minutes. Retract eyelids often. Obtain emergency medical attention if pain, blinking, tears or redness persist.							
•								
Skin Contact	Not expected to present a significant skin hazard under anticipated conditions of normal use.							
Ingestion	Not expected to present a significant ingestion hazard under anticipated conditions of normal use.							
Emergency Medical If large quantity swallowed, give lukewarm water (pint) if victim completely conscious, alert. Do not induce vomiting/								
Treatment Procedures risk of damage to lungs exceeds poisoning risk. Obtain emergency medical attention.								
Detoxification	Treat symptomatically.			511101	,			
	a. ojp.omanoany.							
Procedures								

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# 8. Spill and Disposal

### Precautions if Material is Spilled or Released

Creates dangerous slipping hazard on any hard surface. Material is similar to ball bearings on walking surface, making it difficult to keep steady footing. Spread granular cover on walkways or provide open grating flooring (or equivalent). Limit access to essential cleanup personnel. Stop release. On land, sweep or shovel into suitable disposal containers. On water, material is insoluble. Collect and contain as any solid. Report per regulatory requirements

# Waste Disposal Methods

Landfill solids at permitted sites. Use registered transporters. Comply with federal/state/local regulations for solid waste disposal. Solids may be burned, if fired with supplemental fuel. Avoid flameouts. Assure emissions comply with applicable regulations. Contaminated product, soil or water should not be designated RCRA hazardous waste.

9. Components (This may not be a complete list of components) Compositions are typical values, not specifications CAS No. Carcinogen ### Component Name **Composition Amount** Polyethylene Homopolymer 25213-02-9 95 to 99 N/P Carbon Black 1333-86-4 N/P 0.0 to 5.0

###1=National Toxicology Program 2=International Agency for research and cancer 3=Occupational Health and Safety

Administration 4= Other

10. Component Health Hazards Component Health Hazards Component Polyethylene Homopolymer No significant hazards Slight health hazard Carbon Black

11. Additional Toxicological Information

# Component Name / Comments

Carbon Black

Some sources identify carbon black as a suspected human carcinogen. IARC concludes that the data are insufficient to classify carbon black as a human carcinogen.

### Material

No additional toxicology information is available for this material

12. Physical and Chemical Data						
Boiling Point	Viscosity	Dry Point				
N/AP	N/AP	N/AP				
Freezing Point	Vapor Pressure	Volatile Characteristics				
N/AP	N/DA	Negligible				
Specific Gravity	Vapor Specific Gravity	Solubility in Water				
AP .02 to .15 (H2O = 1.0 at 39.2° F)	N/AP	Negligible (Less than .1 Percent)				
pH	Hazardous Polymerization	Stability				
N/AP	Not expected to occur	Stable				
Other Chemical No additional information available						

Reactivity

Other Physical and No additional information available

Chemical Properties

Appearance and Odor White, Black (or Colored) expanded plastic pellets with little or no odor

Conditions to avoid High temperatures, oxidizing conditions Materials to avoid

Strong oxidizing agents Hazardous Incomplete combustion may produce carbon monoxide and other toxic gases

**Decomposition Products** 

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13. Hazards Rating Information

# National Fire Protection Association

No hazards rating information is available for this system

**National Paint and Coatings Association** 

# Hazardous Materials Information System (HMIS)

No hazards rating information is available for this system

# 14. Additional Precautions

# Handling and Storage Procedures

Due to the extremely slippery nature of this material, more care than usual must be exercised in material handling practices to keep off all walking surfaces. The hazard of any unavoidable spillage can be reduced by using as walking surface an open grating which will permit this material to fall into the open spaces between grating bars for later recovery.

# **Decontamination Procedures**

No special decontamination procedures needed.

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# 15. Regulatory Information

# FEDERAL:

### Toxic Substance Control Act (TSCA)

The following is the TSCA Chemical Substance Inventory Status of the components of this material with CAS numbers listed in Section 9 -

CHEMICAL CAS NO. **STATUS** 

Polyethylene Homopolymer 25213-02-9 1. Listed - Non Confidential Carbon Black 1333-86-4 1. Listed - Non Confidential

### Superfund Amendments and Reauthorization Act of 1988 (SARA), Title III

### - Section 302/304

Requires emergency planning based on "Threshold Planning Quantities" (TPQs), and release reporting based on Reportable Quantities (RQs) of "Extremely Hazardous Substances" (EHS) listed in Appendix A of 40 CFR 355. There are no components of this material with known CAS numbers which are on the EHS list.

Based upon available information, this material and/or components are classified as the following health and/or physical hazards according to Section 311 & 312:

Immediate (Acute) Health Hazard

The material does not contain any chemical components with known CAS numbers that exceed the De Minimis reporting levels established by SARA Title III, Section 313 and 40 CFR 372.

### Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)

No chemicals in this material with known CAS numbers are subject to the reporting requirements of CERCLA.

### OSHA Regulation

"Chemical-specific" OSHA regulations presented under 29 CFR 1910 do not apply to this material or its components.

# Other EPA Regulations

No additional information is available

# Department of transportation (DOT)

Other than the normal shipping instructions and information given in this MSDS, there are no other specific DOT regulations governing the shipment of this material.

# STATE REGULATIONS:

# California Safe Drinking Water and Toxic Enforcement Act of 1988 - Proposition 65

This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to the proposition.

# California South Coast Air Quality Management District (SCAQMD) Rule 443.1 (VOC's)

A Volatile Organic Compound (VOC) is any volatile compound of carbon excluding methane, carbon monoxide, carbonic acid, metallic carbides or carbonates, ammonium carbonate, 1,1,1-trichloroethane, methylene chloride, (FC-23), (CFC-113), (CFC-12), (CFC-11), (CFC-22), (CFC-114), and (CFC-115). By this definition, this is not a VOC material.

# Massachusetts Right-to-Know Substance List (MSL) [105 CMR670.000]

Hazardous Substances (MSL-HS) on the MSL must be identified when present in materials at levels greater than state specified criterion. The criterion is >=1%. Components with CAS numbers present in this material at a level which could require reporting under the statute are:

CHEMICAL CAS NO.

Extraordinarily Hazardous Substances (MSL-EHS) must be identified when present in materials at levels greater than state specified criterion. The criterion is >=0.0001%. Components with CAS numbers present in this material, at levels specified in Section 9 - Components, do not require reporting under the statute.

# New Jersey Registration

None of the trade secrets listed in Section 9 - Components have been registered with the State of New Jersey

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15. Regulatory Information (Cont'd)

# Pennsylvania Right-to-Know Hazardous Substance Lists

Hazardous Substances (PA-HS) must be identified when present in materials at levels greater than the state specified criterion. The criterion is >=1%. Components with CAS numbers in this material at a level which could require reporting under the statute are:

CHEMICAL CAS NO.

Carbon Black 1333-86-4

Special Hazardous Substances (PA-SHS) must be identified when present in materials at levels greater than the state criterion. The criterion is >=0.01%. Environmental Hazards (PA-EH) must be identified when present in materials at levels greater than the state specified criterion. The criterion is >=0.01%. Components with CAS numbers present in this material, at levels specified in Section 9 - Components, do not require reporting under the statute.

# Regulatory Advisory

If you reformulate or further process this material, you should consider re-evaluation of the regulatory status of the components listed in Section 9, based on the final composition of your product.

One or more of the trade secret components of this material, listed in Section 9 - Components, may be on states' regulatory lists. Chemical identities will be revealed to treating physicians in an emergency, or to purchasers after execution of a secrecy agreement.



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16. Label Information

JSP Resins LLC

1285 Drummers Lane Wayne, PA 19087

Telephone Numbers: **EMERGENCY** 

800-424-9300 CHEMTREC 610-651-8600  $JSP\,Resins\;LLC$ 

CUSTOMER SERVICE

610-651-8616 Information Only

Signal Word

Other JSP Names This document covers all members of the series of products

identified as ARPAKR Expanded Polyethylene Beads

G000692-001 through G00692-025

Use Statement Keep out of the reach of children

**Health Hazards** Physical Hazards

Slipping hazard on smooth, hard walking surface Inhalation hazard - particulates/dust

Eye irritant-particulates/dust

Precautionary Measures

Avoid contact with eyes

Manufacturer:

Avoid prolonged or repeated breathing of dust

Use with adequate ventilation

Remove spillage immediately from hard, smooth walking areas

UN/NA ID No. N/AP DOT Hazardous Class Not regulated N/AP DOT Information: **DOT Reportable Quantity** 

DOT Hazardous Material Shipping Name Not regulated

Component Name Composition Amount (Wt.) RQ Polyethylene Homopolymei 25213-02-9 95 to 99 N/AP Carbon Black 1333-86-4 0.0 to 5.0 N/AP

Instructions: In case of fire use: Water; CO2; Dry chemical; Foam

> First Aid: Inhalation Remove victim to fresh air immediately. Obtain emergency medical attention if breathing difficulty persists beyond

In case of eye contact with this solid material, immediately rinse with clean water for 20-30 minutes. Retract eyelids Eye Contact

often. Obtain emergency medical attention if pain, blinking, tears or redness persist.

Not expected to present a significant skin hazard under anticipated conditions of normal use. Skin Contact

Ingestion Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

In case of Spill, Material creates dangerous slipping hazard on hard surfaces. Spread granular cover or provide open grating

flooring. Limit access to essential personnel. On land, sweep/shovel into disposal containers. On water,

material is insoluble; collect and contain as any solid. Report per regulatory requirements. **Protective Equipment** 

Respiratory Use NIOSH/MSHA approved dust or mist respirator where excessive dust or mist may result from use

Dust service goggles should be worn to prevent mechanical injury to eyes due to airborne particles when Eye

No special clothing normally required. Where use can result in skin contact, wash thoroughly before Skin

eating, drinking, smoking, or leaving work.

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17. General Comments

**General Comments** 

No additional information available

Other Comments

Some of the information presented and conclusions drawn herein are from sources other than direct test data on the material itself.

EQ=Equal AP=Approximately N/P=No applicable information found Qualifications: LT=Less Than UK=Unknown

N/AP=Not Applicable N/DA=No Data Available GT=Greater Than TR=Trace

Disclaimer of liability

The information in the MSDS was obtained from sources which we believe are reliable,

HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE USE OR DISPOSAL OF THE PRODUCT.

This MSDS was prepared and is to be used only for this product.

If the product is used as a component in another product, this MSDS information may not be applicable.

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