# Material Safety Data Sheet

## ARPEX<sup>R</sup> CROSS-LINKED EXPANDED POLYETHYLENE BEADS

| MSDS No    | G-000702-1-OSHA-AE |
|------------|--------------------|
| MSDS CLASS | Н                  |
| Ver. No.   | 1                  |
| Ver. Date  | DEC 9 2004         |
|            |                    |

Manufacturer: JSP In: 273 Gre

JSP International 273 Great Valley Parkway Malvern, PA 19355 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.

|                                    |   |  |                                 | 1. General                 |   |  |  |  |  |
|------------------------------------|---|--|---------------------------------|----------------------------|---|--|--|--|--|
| Trade Name                         | ARPEX <sup>R</sup> CROSS-LINKED EXPANDED<br>POLYETHYLENE BEADS  |  | Telephone Numbers:<br>EMERGENCY |                            |   |  |  |  |  |
| Other JSPI Names                   | This document covers all members of the series  |  | 800/424-9300                    | CHEMTREC                   |   |  |  |  |  |
|                                    | products identified as ARPEX <sup>R</sup> Cross-linked  |  | ed                              | 610-651-8600               | JSP International                               |  |  |  |  |
|                                    | Expanded Polyeth  | ylene Beads G000702-0                                | 001                             | CUSTOMER SERVICE           |   |  |  |  |  |
|                                    | through G000702-  | 025.   |                                 | 800/722-7776               | Information Only                                |  |  |  |  |
| Synonyms                           | None  |  |                                 |                            |   |  |  |  |  |
| Other Industry Names               | None  |  |                                 |                            |   |  |  |  |  |
| Chemical Family                    | Organic polymers  |  |                                 | ardous Material Proper     | Shipping Name                                   |  |  |  |  |
| Generic Name                       | Ethylene Homopol  | mor  | Not regula                      | ated<br>ard Class          | DOT Reportable Quantity                         |  |  |  |  |
| Generic Name                       |   | ymer   | Not regula                      |                            | N/AP  |  |  |  |  |
| CAS No.                            | (See Sec. 9 -<br>Components)  | JSPI Material I.D.                                   | BE672                           | UN/NA ID No.               | NAP   |  |  |  |  |
|                                    |   |  | 2. Sum                          | mary of Hazards            |   |  |  |  |  |
| Signal Word                        | CAUTION   |  |                                 |                            |   |  |  |  |  |
| Physical Hazard                    | May product dust of   | on handling (See Sectio                              | n 14- Additi                    | onal Precautions)          |   |  |  |  |  |
|                                    | Slipping hazard if s  | spilled on hard smooth v                             | valking surf                    | ace                        |   |  |  |  |  |
| Acute Health Effects               | Slight inhalation ha  | azard - particulates/dust                            |                                 |                            |   |  |  |  |  |
| (Short Term)                       | Dust may be a slig  |  |                                 |                            |   |  |  |  |  |
|                                    | No data found; no   | No data found; no expected ingestion hazard          |                                 |                            |   |  |  |  |  |
|                                    |   | data found; no expected skin irritation hazard       |                                 |                            |   |  |  |  |  |
|                                    | No data found; no   | expected skin absorptio                              | n hazard                        |                            |   |  |  |  |  |
| Chronic Health Effects             | No appropriate hur  | man or animal data are                               | known to ex                     | kist on adverse chronic h  | nealth effects from repeated                    |  |  |  |  |
| (Long-Term)                        | or prolonged exposure to this material  |  |                                 |                            |   |  |  |  |  |
|                                    | Repeated or prolor  | nged breathing of dust s                             |                                 |                            |   |  |  |  |  |
|                                    | <del></del>   |  |                                 | and Explosion              |   |  |  |  |  |
| Flash Point<br>N/AP                | Autoignition Tem<br>GT 600°F  | perature   | Flammab<br>Lower:               |                            |   |  |  |  |  |
| N/AP                               | GT 000 F  |  |                                 |                            |   |  |  |  |  |
| Fire and Explosion                 | Upper: N/AP<br>Heat from fire may melt, decompose, and generate flammable vapors. When mixed with air and exposed to ignition source, |  |                                 |                            |   |  |  |  |  |
| Hazard                             |   |  | •                               |                            | ir. May travel long distances along the ground  |  |  |  |  |
|                                    |   |  |                                 |                            | eam explosion on contact with water.            |  |  |  |  |
| Extinguishing Media                | Dry chemical  |  |                                 | - *                        |   |  |  |  |  |
|                                    | CO2   |  |                                 |                            |   |  |  |  |  |
|                                    | Foam  |  |                                 |                            |   |  |  |  |  |
| Estimatic hima Martin              | Water   | nation quailable                                     |                                 |                            |   |  |  |  |  |
| Extinguishing Media<br>Use Comment | No additional inform  |  |                                 |                            |   |  |  |  |  |
| Special Firefighting               |   |  |                                 |                            | d Chemical Data - Hazardous Decomposition       |  |  |  |  |
| Procedures                         |   |  |                                 |                            | contact results in slipping/falling hazard. For |  |  |  |  |
|                                    |   |  |                                 |                            | m outside to open up. Cool interior/prevent     |  |  |  |  |
|                                    |   | g for surface cooling. Ke<br>liquid enters sewer/pub |                                 | ourning material. Molten i | material forms flaming drops after igniting.    |  |  |  |  |
|                                    | Notify autionities II   | inquia enters sewer/pub                              | nic waters.                     |                            |   |  |  |  |  |
| l                                  |   |  |                                 |                            |   |  |  |  |  |

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FOR DISCLAIMER OF LIABILITY, SEE THE STATEMENT ON FINAL PAGE

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|                           |  |                      | 4. H          | ealth Haz    | ards               |                 |  |  |
|---------------------------|--|----------------------|---------------|--------------|--------------------|-----------------|--|--|
| Summary of Acute          | Dust, if generated from the  | nis material, may o  | ause respi    | ratory irrit | ation following ar | n excessive ir  | halation exposure. Some eye irritation |  |
| Hazards                   | is also possible following   | exposure to the d    | ust.          |              |                    |                 |  |  |
| ROUTE OF                  | SIGNS AND SYMPTOM  | S                    |               |              |                    |                 | PRIMARY                                |  |
| EXPOSURE                  |  |                      |               |              |                    |                 | ROUTE(S)                               |  |
| Inhalation                | Dust from this product may cause respiratory irritation following an excessive inhalation                                      |                      |               |              | Yes                |                 |  |  |
|                           | exposure. Follow exposure limits given on this material safety data sheet.   |                      |               |              |                    |                 |  |  |
| Eye Contact               | Dust from this product m   |                      |               |              |                    |                 | Yes                                    |  |
| Skin Absorption           | Although no appropriate  | human or animal l    | nealth effec  | ts data ar   | e known to exist,  | this            | No                                     |  |
|                           | material is not expected   | to be a health haz   | ard by skin   | absorptio    | n.                 |                 |  |  |
| Skin Irritation           | Although no appropriate  | human or animal l    | nealth effec  | ts data ar   | e known to exist,  | this            | No                                     |  |
|                           | material is not expected   | to be a skin irritan | t.            |              |                    |                 |  |  |
| Ingestion                 | Although no appropriate  | human or animal l    | nealth effec  | ts data ar   | e known to exist,  | this            | No                                     |  |
|                           | material is not expected   | to be an ingestion   | hazard.       |              |                    |                 |  |  |
| Summary of Chronic        | No appropriate human or  | animal data are a    | available or  | the chroi    | nic health effects | from prolong    | ed                                     |  |
| Hazards                   | or repeated exposure to  |                      |               |              |                    |                 |  |  |
| Special Health Effects    | This material or its emiss   | ions may aggrava     | te pulmona    | ry/bronch    | ial disease and/c  | r cause brea    | thing difficulty.                      |  |
|                           |  | 5. Protectiv         | e Equipme     | ent and O    | ther Control Me    | asures          |  |  |
| Respiratory               | If exposure can exceed t   | he PEL/TLV, use      | only NIOSH    | I/MSHA a     | pproved supplied   | l air respirato | r operated in a positive               |  |
|                           | pressure mode as specif  | ied in the NIOSH/    | OSHA 1987     | 1 Occupat    | ional Health Guid  | delines for Ch  | nemical Hazards.                       |  |
| Eye                       | Dust service goggles should be worn to prevent mechanical injury or other irritation to eyes due to airborne                   |                      |               |              |                    |                 |  |  |
|                           | particles which may resu   | It from handling th  | is product.   |              |                    |                 |  |  |
| Skin                      | Not normally considered  | a skin hazard. Wł    | nere use ca   | n result in  | skin contact, pra  | actice good p   | ersonal hygiene. Wash                  |  |
|                           | hands and other exposed  | d areas with mild s  | oap and w     | ater befor   | e eating, drinking | , smoking, ar   | nd when leaving work.                  |  |
| Engineering Controls      | If handling results in dust  | generation or hig    | h temperat    | ures, loca   | l exhaust ventilat | ion should b    | e provided to                          |  |
|                           | insure that exposure to d  | ust or decomposit    | ion product   | ts does no   | t exceed the PEI   | L/TLV recomi    | mended levels.                         |  |
| Other Hygienic            | Use good personal hygie  | ne practices. Was    | h hands be    | efore eatin  | ıg, drinking, smol | king or using   | toilet facilities. Promptly            |  |
| Practices                 | remove soiled clothing/w   | ash thoroughly be    | fore reuse.   | Shower a     | after work using p | lenty of soap   | and water.                             |  |
| Other Work Practices      | No special work practice   | s are needed beyo    | ond the abo   | ve recom     | mendations unde    | er anticipated  | conditions of normal use.              |  |
|                           |  | 6                    | . Occupati    | onal Exp     | osure Limits       |                 |  |  |
| Substance                 |  | Source               | Date          | Туре         | Value/Units        | Time            | Skin                                   |  |
| Particulates Not Otherwis | se Regulated   | OSHA                 | 1989          | TWA          | 15MG/M3            | 8 HRS           | No                                     |  |
| (Total Dust)              |  |                      |               |              |                    |                 |  |  |
| Particulates Not Otherwis | se Regulated   | OSHA                 | 1989          | TWA          | 5 MG/M3            | 8 HRS           | No                                     |  |
| (Respirable Fraction)     |  |                      |               |              |                    |                 |  |  |
| Nuisance Particulates     |  | ACGIH                | 1992          | TWA          | 10MG/M3            | 8 HRS           | No                                     |  |
| Industrial Hygiene        | No additional Occupation   | al Exposure Limit    | information   | n available  | 9                  |                 |  |  |
| Comments                  |  |                      |               |              |                    |                 |  |  |
|                           | -  |                      |               |              | First Aid          |                 |  |  |
| Inhalation                | Remove victim to fresh air immediately. Obtain emergency medical attention if breathing difficulty persists beyond 15 minutes. |                      |               |              |                    |                 |  |  |
| 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  | · ·                  |               |              |                    |                 |  |  |
| Ingestion                 | Not expected to present  | a significant inges  | tion hazard   | under an     | ticipated conditio | ns of normal    | use.                                   |  |
| Emergency Medical         | Treat symptomatically.   |                      |               |              |                    |                 |  |  |
| Treatment Procedures      |  |                      |               |              |                    |                 |  |  |
| Detoxification            | After adequate first aid, r  | o further treatmer   | nt is require | d, unless    | symptoms reapp     | ear.            |  |  |
| Procedures                |  |                      |               |              |                    |                 |  |  |

# ARPEX<sup>R</sup> CROSS-LINKED EXPANDED POLYETHYLENE BEADS

|   | 8. Spill and  | d Disposal                            |                                     |  |  |  |
|---|---|---------------------------------------|-------------------------------------|--|--|--|
| Precautions if Material is Spilled or Re  |   |                                       |                                     |  |  |  |
|   |   | ngs on walking surface making it      | difficult to keep steady            |  |  |  |
| Creates dangerous slipping hazard on any hard surface. Material similar to ball bearings on walking surface, making it difficult to keep steady<br>footing. Spread granular cover on walkways or provide open grating flooring (or equivalent). Limit access to essential cleanup personnel. Stop |   |                                       |                                     |  |  |  |
|   | uitable disposal containers. On water, materi                   |                                       |                                     |  |  |  |
| Report per regulatory requirements.   | ,,  |                                       |                                     |  |  |  |
| ······································  |   |                                       |                                     |  |  |  |
| Waste Disposal Methods  |   |                                       |                                     |  |  |  |
| Landfill solids at permitted sites. Use reg   | istered transporters. Comply with federal/sta                   | te/local regulations for solid waste  | e disposal. Solids may be burned,   |  |  |  |
| if fired with supplemental fuel. Avoid flam   | neouts. Assure emissions comply with application                | able regulations. Contaminated p      | roduct, soil or water should not be |  |  |  |
| designated RCRA hazardous waste.  |   |                                       |                                     |  |  |  |
|   |   | ponents                               |                                     |  |  |  |
| (This may not be a complete list of con   | mponents) Compositions  | s are typical values, not specific    | cations                             |  |  |  |
| Component Name  | CAS No.   | Composition Amount                    | Carcinogen                          |  |  |  |
| Polyethylene (Cross-linked)   | 9002-88-4   | . 99.5 %                              | N/P                                 |  |  |  |
| Modifiers/Additives   | N/A   | < 0.5 %                               |                                     |  |  |  |
|   | tional American Branch and Comp. A. C.                          |                                       | i 4-04                              |  |  |  |
| ###1=National Toxicology Program 2=Interna  | ational Agency for Research on Cancer 3=Occupa<br>10. Component | ational Health and Safety Administrat | ion 4=Other                         |  |  |  |
| Component   | Component Health Hazards  |                                       |                                     |  |  |  |
| Polyethylene (Cross-linked)   | No significant hazards  |                                       |                                     |  |  |  |
|   |   |                                       |                                     |  |  |  |
|   | 11. Additional Toxic  | ological Information                  |                                     |  |  |  |
| Component Name / Comments   |   |                                       |                                     |  |  |  |
|   | vailable for the components of this material.                   |                                       |                                     |  |  |  |
| Material  |   |                                       |                                     |  |  |  |
| No additional toxicology information is av  |   |                                       |                                     |  |  |  |
|   |   | d Chemical Data                       |                                     |  |  |  |
| Boiling Point   | Viscosity   | Dry Point                             |                                     |  |  |  |
| N/AP  | N/AP  | N/AP                                  |                                     |  |  |  |
| Freezing Point  | Vapor Pressure  | Volatile Characteristics              |                                     |  |  |  |
| N/AP  |   |                                       |                                     |  |  |  |
|   | Specific Gravity Vapor Specific Gravity Solubility in Water     |                                       |                                     |  |  |  |
| AP .07 (H2O = 1.0 at 39.2° F)         N/AP         Negligible (Less than .1 Percent)  |   |                                       |                                     |  |  |  |
| pH  | Hazardous Polymerization  | Stability                             |                                     |  |  |  |
| N/AP Other Chemical No additional i   | Not expected to occur<br>nformation available                   | Stable                                |                                     |  |  |  |
| Reactivity  |   |                                       |                                     |  |  |  |
| ,   | nformation available  |                                       |                                     |  |  |  |
| Chemical Properties   |   |                                       |                                     |  |  |  |
|   | or; Natural color; Expanded plastic pellets                     |                                       |                                     |  |  |  |
|   | ures, oxidizing conditions; Processing at ter                   | mperatures above 200°C (392°F)        | may produce                         |  |  |  |
| hazardous decompostion products   |   |                                       |                                     |  |  |  |
| Materials to avoid Strong oxidizing agents  |   |                                       |                                     |  |  |  |
|   | ends local exhaust ventialtion to remove thes                   | e materials                           |                                     |  |  |  |
| Decomposition Products Incomp   | lete combustion may produce carbon monox                        | kide and other toxic gases            |                                     |  |  |  |
|   |   | <b>v</b>                              |                                     |  |  |  |

#### 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 Potential dust explosion hazard. As shipped in the form of pellets, this material should not contain sufficient dust to be an explosion hazard. However, dust could be formed during transport or as a result of pellet degradation by impact or by abrasion in conveying operations. Therefore, the material should be transferred in properly grounded conveying equipment. Proper ventilation, electrical code conformance, nitrogen purging and other precautions should be considered during grinding operations or any other operation which could cause severe dusting. Due to the extremely slippery nature of this material, more care than usual must be exercised when handling to keep any spilt material 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 -Components: CHEMICAL CAS NO. STATUS Polyethylene (Cross-linked) 1. Listed - Non Confidential 9002-88-4 Modifiers/Additives N/A 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. - Section 311 & 312 Based upon available information, this material and/or components are not classified as any of the specific health and/or physical hazards defined by Section 311 & 312: - Section 313 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 Regulations "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] Extraordinarily Hazardous Substances (MSL-EHS) must be identified when present in materials at levels greater than state specified criterion. The criterion is >=0.0001%. Hazardous Substances (MSL-HS) on the MSL must be identified when present in materials at greater than the state specified criterion. The criterion is >=1%. 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 The New Jersey, Registry 3, Registration law does not apply to this material, as none of its components are trade secrets

### 15. Regulatory Information (Cont'd)

#### Pennsylvania Right-to-Know Hazardous Substance Lists

Special Hazardous Substances (PA-SHS) must be identified when present in materials at levels greater than the state specified criterion. The criterion is >=0.01%. Hazardous Substances (PA-HS) must be identified when present in materials at levels greater than the state specified criterion. The criterion is >=1%. 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.

|   |  |   | 16. Lat  | pel Information  |   |   |         |
|---|--|---|--|--|---|---|---------|
| Manufacturer:   | JSP Internationa<br>287 Great Valley F<br>Malvern, PA 193  | Parkway   | (  | Telephone Numbers:<br>EMERGENCY<br>800-424-9300<br>610-651-8600<br>CUSTOMER SERVICE<br>800-722-7776  | Information Onl   |   |         |
|   |  |   | :  | Signal Word  | CAUTION   |   |         |
| Other JSPI Names<br>Use Statement   |  | 1   |  | IS   |   |   |         |
| Physical Hazards<br>Slipping hazard on smooth, ha<br>May produce dust on handling   |  |   |  | rds<br>zard - particulates/dust<br>articulates/dust  |   |   |         |
| Precautionary Measures<br>Do not handle near heat, spar<br>Avoid accumulation of dust in<br>Avoid contact with eyes<br>Do not breathe dust<br>Use with adequate ventilation                                       | enclosed space   |   |  |  |   |   |         |
| Wash thoroughly after handlin<br>Remove spillage immediately  |  | ing areas   |  |  |   |   |         |
|   |  | ing areas DOT Hazardous Class   | Not regulated  | i DOT Reportab   | le Quantity   | N/AP  |         |
| Remove spillage immediately   | from hard, smooth walk   | -   | Not regulated  | DOT Reportab   | le Quantity   | N/AP  |         |
| Remove spillage immediately DOT Information:  | from hard, smooth walk   | DOT Hazardous Class   | -  | i DOT Reportab<br>Composition Amount (Wt.)<br>99.50%<br>< 0.5%   | )   | N/AP<br>RQ<br>N/AP<br>N/AP  |         |
| Remove spillage immediately<br>DOT Information:<br>DOT Hazardous Material Sh<br>Component Name<br>Crosslinked Polyethylene  | from hard, smooth walk   | DOT Hazardous Class   | <b>CAS No.</b><br>9002-88-4<br>N/A   | Composition Amount (Wt.)<br>99.50%   | )   | <b>RQ</b><br>N/AP   |         |
| Remove spillage immediately<br>DOT Information:<br>DOT Hazardous Material Sh<br>Component Name<br>Crosslinked Polyethylene<br>Modifiers/Additives<br>Instructions:  | from hard, smooth walk<br>UN/NA ID No. N/AP<br>ipping Name   | DOT Hazardous Class<br>Not regulated<br>Dry chemical; CO2; Foan   | <b>CAS No.</b><br>9002-88-4<br>N/A<br>n; Water   | Composition Amount (Wt.)<br>99.50%   | )   | <b>RQ</b><br>N/AP<br>N/AP   |         |
| Remove spillage immediately<br>DOT Information:<br>DOT Hazardous Material Sh<br>Component Name<br>Crosslinked Polyethylene<br>Modifiers/Additives<br>Instructions:  | from hard, smooth walk<br>UN/NA ID No. N/AP<br>ipping Name<br>In case of fire use:   | DOT Hazardous Class<br>Not regulated<br>Dry chemical; CO2; Foan<br>Remove victim to fresh air<br>15 minutes.<br>In case of eye contact with   | CAS No.<br>9002-88-4<br>N/A<br>n; Water<br>immediately. Ol   | Composition Amount (Wt.)<br>99.50%<br>< 0.5%   | )<br>,<br>tention if breathing (<br>clean water for 20-31   | <b>RQ</b><br>N/AP<br>N/AP   | often.  |
| Remove spillage immediately<br>DOT Information:<br>DOT Hazardous Material Sh<br>Component Name<br>Crosslinked Polyethylene<br>Modifiers/Additives<br>Instructions:  | from hard, smooth walk<br>UN/NA ID No. N/AP<br>ipping Name<br>In case of fire use:<br>: Inhalation   | DOT Hazardous Class<br>Not regulated<br>Dry chemical; CO2; Foan<br>Remove victim to fresh air<br>15 minutes.<br>In case of eye contact with<br>Obtain emergency medica  | CAS No.<br>9002-88-4<br>N/A<br>n; Water<br>immediately. Ol<br>n this solid mater<br>I attention if pair  | Composition Amount (Wt.<br>99.50%<br>< 0.5%<br>btain emergency medical at<br>rial, immediately rinse with c  | )<br>tention if breathing of<br>clean water for 20-30<br>persist.   | RQ<br>N/AP<br>N/AP<br>difficulty persists beyond<br>0 minutes. Retract eyelids  | often.  |
| Remove spillage immediately<br>DOT Information:<br>DOT Hazardous Material Sh<br>Component Name<br>Crosslinked Polyethylene<br>Modifiers/Additives<br>Instructions:  | from hard, smooth walk<br>UN/NA ID No. N/AP<br>ipping Name<br>In case of fire use:<br>Inhalation<br>Eye Contact                              | DOT Hazardous Class<br>Not regulated<br>Dry chemical; CO2; Foan<br>Remove victim to fresh air<br>15 minutes.<br>In case of eye contact with<br>Obtain emergency medica<br>Not expected to present a   | CAS No. 0<br>9002-88-4<br>N/A<br>n; Water<br>immediately. Of<br>this solid mater<br>I attention if pair<br>significant skin  | Composition Amount (Wt.<br>99.50%<br>< 0.5%<br>btain emergency medical at<br>rial, immediately rinse with o<br>n, blinking, tears or redness   | )<br>tention if breathing of<br>clean water for 20-30<br>persist.<br>nditions of normal u   | RQ<br>N/AP<br>N/AP<br>difficulty persists beyond<br>0 minutes. Retract eyelids<br>ise.  | often.  |
| Remove spillage immediately<br>DOT Information:<br>DOT Hazardous Material Sh<br>Component Name<br>Crosslinked Polyethylene<br>Modifiers/Additives<br>Instructions:  | from hard, smooth walk<br>UN/NA ID No. N/AP<br>ipping Name<br>In case of fire use:<br>Inhalation<br>Eye Contact<br>Skin Contact<br>Ingestion | DOT Hazardous Class<br>Not regulated<br>Dry chemical; CO2; Foan<br>Remove victim to fresh air<br>15 minutes.<br>In case of eye contact with<br>Obtain emergency medica<br>Not expected to present a<br>Not expected to present a<br>Material creates dangerou   | CAS No. 0<br>9002-88-4<br>N/A<br>m; Water<br>immediately. Ol<br>this solid mater<br>attention if pair<br>significant skin l<br>significant inges<br>s slipping hazar<br>rersonnel. On la   | Composition Amount (Wt.<br>99.50%<br>< 0.5%<br>btain emergency medical at<br>rial, immediately rinse with o<br>n, blinking, tears or redness<br>hazard under anticipated co<br>stion hazard under anticipated<br>d on hard surfaces. Spread<br>nd, sweep/shovel into dispo   | )<br>tention if breathing of<br>clean water for 20-30<br>persist.<br>Inditions of normal u<br>ed conditions of nor<br>granular cover or p   | RQ<br>N/AP<br>N/AP<br>difficulty persists beyond<br>0 minutes. Retract eyelids<br>ise.<br>mal use.<br>rovide open grating floorin   | g.      |
| Remove spillage immediately DOT Information: DOT Hazardous Material Sh Component Name Crosslinked Polyethylene Modifiers/Additives Instructions: First Aid: In case of Spill Protective Equipment Respiratory Eye | from hard, smooth walk<br>UN/NA ID No. N/AP<br>ipping Name<br>In case of fire use:<br>Inhalation<br>Eye Contact<br>Skin Contact<br>Ingestion | DOT Hazardous Class<br>Not regulated<br>Dry chemical; CO2; Foan<br>Remove victim to fresh air<br>15 minutes.<br>In case of eye contact with<br>Obtain emergency medica<br>Not expected to present a<br>Not expected to present a<br>Material creates dangerou<br>Limit access to essential p<br>collect and contain as any<br>Use only NIOSH/MSHA appro                             | CAS No. 0<br>9002-88-4<br>N/A<br>n; Water<br>immediately. Of<br>n this solid mater<br>I attention if pair<br>significant significant significant significant<br>significant significant significant significant<br>solid. Report per<br>opproved supplied<br>ved dust or mist                        | Composition Amount (Wt.<br>99.50%<br>< 0.5%<br>btain emergency medical at<br>rial, immediately rinse with o<br>n, blinking, tears or redness<br>hazard under anticipated co<br>stion hazard under anticipated<br>d on hard surfaces. Spread<br>nd, sweep/shovel into dispo   | tention if breathing of<br>clean water for 20-30<br>persist.<br>Inditions of normal u<br>ed conditions of nor<br>granular cover or p<br>sal containers. On v<br>hing apparatus oper<br>dust or mist may re        | RQ<br>N/AP<br>N/AP<br>difficulty persists beyond<br>0 minutes. Retract eyelids<br>ise.<br>mal use.<br>rovide open grating floorin<br>vater, material is insoluble<br>ated in a postive pressure<br>isult from use.                              | g.<br>; |
| Remove spillage immediately DOT Information: DOT Hazardous Material Sh Component Name Crosslinked Polyethylene Modifiers/Additives Instructions: Instructions: In case of Spill Protective Equipment Respiratory  | from hard, smooth walk<br>UN/NA ID No. N/AP<br>ipping Name<br>In case of fire use:<br>Inhalation<br>Eye Contact<br>Skin Contact<br>Ingestion | DOT Hazardous Class<br>Not regulated<br>Dry chemical; CO2; Foan<br>Remove victim to fresh air<br>15 minutes.<br>In case of eye contact with<br>Obtain emergency medica<br>Not expected to present a<br>Not expected to present a<br>Material creates dangerou<br>Limit access to essential p<br>collect and contain as any<br>Use only NIOSH/MSHA apro<br>Dust service goggles shou | CAS No. 9002-88-4<br>N/A<br>n; Water<br>immediately. Of<br>n this solid mater<br>il attention if pair<br>significant skin i<br>significant skin i<br>significant skin i<br>significant skin i<br>significant skin i<br>solid. Report pe<br>oproved supplied<br>ved dust or mist<br>ild be worn to pr | Composition Amount (Wt.<br>99.50%<br>< 0.5%<br>btain emergency medical at<br>rial, immediately rinse with o<br>n, blinking, tears or redness<br>hazard under anticipated co<br>stion hazard under anticipated<br>d on hard surfaces. Spread<br>nd, sweep/shovel into dispo<br>er regulatory requirements.<br>d air or self-contained breatt<br>respirator where excessive<br>event mechanical injury to e<br>ere use can result in skin co | )<br>clean water for 20-30<br>persist.<br>Inditions of normal u<br>ed conditions of normal u<br>granular cover or p<br>sal containers. On v<br>hing apparatus oper<br>dust or mist may re<br>ayes due to airborne | RQ<br>N/AP<br>N/AP<br>difficulty persists beyond<br>0 minutes. Retract eyelids<br>use.<br>mal use.<br>rovide open grating floorin<br>vater, material is insoluble<br>ated in a postive pressure<br>sult from use.<br>e particles when handling. | g.<br>; |

SEQ:1

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# ARPEX<sup>R</sup> CROSS-LINKED EXPANDED POLYETHYLENE BEADS

|                             |   | 17. General Commer                              | nts                                  |  |
|-----------------------------|---|---|--------------------------------------|--|
| General Comments            |   |   |                                      |  |
| No additional information   | available.                                  |   |                                      |  |
| Other Comments              |   |   |                                      |  |
| Some of the information     | presented and conclusions drawn herein a    | are from sources other than direct test data on | the material itself.                 |  |
| Note                        | EQ=Equal                                    | AP=Approximately                                | N/P=No applicable information found  |  |
| Qualifications:             | LT=Less Than                                | UK=Unknown                                      | N/AP=Not Applicable                  |  |
|                             | GT=Greater Than                             | TR=Trace  | N/DA=No Data Available               |  |
|                             |   | Disclaimer of liability                         |                                      |  |
| The information in the MS   | SDS was obtained from sources which we      | believe are reliable.                           |                                      |  |
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| CORRECTNESS.                |   |   |                                      |  |
| CONNECTINESS.               |   |   |                                      |  |
| The conditions or method    | le of handling, storage, use and dispessel. | of the product are beyond our control and may   | he hewend our knowledge              |  |
|                             | 0. 0.                                       |   | , .                                  |  |
|                             | ,   |   | IABILITY FOR LOSS, DAMAGE OR EXPENSE |  |
| ARISING OUT OF OR IN        | I ANY WAY CONNECTED WITH THE HA             | ANDLING, STORAGE USE OR DISPOSAL OF             | THE PRODUCT.                         |  |
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| This MSDS was prepared      | and is to be used only for this product.    |   |                                      |  |
| If the product is used as a | a component in another product, this MSE    | S information may not be applicable.            |                                      |  |
| in and product to used us t |   | in a manual of may not be applicable.           |                                      |  |