MATERIAL SAFETY DATA SHEET

Aerocel - AC Insulation

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I. PRODUCT IDENTIFICATION

Name: Aerocel - EPDM Closed Cell Elastomeric Thermal Insulation.

II. CHEMICAL NAME

Ethylene - Propylene - Terpolymer Rubber blended compound

III. PRODUCT CONTENT

This product is classified as an "article" according to title 29 of the Code of Federal Regulations, OSHA Part 1910. 1200c. They are formed to a specific shape or design during manufacture, has end use functions dependent upon their shape and design, and does not release any hazardous chemical under normal conditions of use.

IV. COMPOSITION / INFORMATION ON INGREDIENTS

Ethylene-Propylene-Terpolymer Rubber
Formal Name: EPT/EPDM
Chemical Family: Synthetic Rubber
An Appropriate container for reuse or disposal
CAS No.: 25038-36-2

Alumina Trihydrate
Chemical Name:
Alumina Trihydrate/Aluminum Hydroxide
Formal Name: Aluminum Oxide Trihydrate
CAS No.: 21645-51-2

Carbon Black
Chemical Name: Carbon Black
Formal Name: Furnace Black
Chemical Family: High - Purity Colloidal Carbon
CAS No. 1333-86-4

V. HAZARD IDENTIFICATION (Health Hazards)

Inhalation: No significant signs of any adverse health hazards are expected to occur as a result of inhalation exposure.

Eye Contact: No significant signs of any adverse health hazards are expected to occur as a result of eye contact

Skin Contact: No significant signs of any adverse health hazards are expected to occur as a result of skin contact

Ingestion: Practically non-toxic

VI. FIRST AID MEASURES

Inhalation: Not required under normal use. If irritation persists, remove from exposed area

Eye Contact: Not required under normal use. Flush with water until all traces of this material are gone. Seek medical attention if irritation perisists.

Skin Contact: Not required under normal use.

VII. FIRE FIGHTING MEASURES

Extinguishing Media: Carbon Dioxide, ABC dry chemical, water spray and foam. Specific hazards with regard to fire fighting measures: Approach from upwind side. Avoid breathing smoke, fumes or vapors on downwind side. Firefighters wear protective clothing, especially eye protection and self contained breathing apparatus.

Hazardous Combustion Products:

May generate Carbon Monoxide, Carbon Dioxide, low molecular weight alcohols, aldehydes and acids.

VIII. ACCIDENTAL RELEASE MEASURES

Steps if materials released/spilled:

Land spill: Collect spilled material and place in an appropriate container for reuse or disposal

Water spill: Product is insoluble. Collect spilled material and place in an appripriate container for reuse or disposal

Neutralizing Agent: N/A

IX. HANDLING AND STORAGE

Handling condition: No special precaution required

Storage condition: Keep in a dry normal storage.

X. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Controls: General ventilation

Personal Protection: N/A

XI. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Expended Rubber Foam

Specific Gravity (H_2O=1): 0.04-0.09

Service Temperature (^{0}C): -57°C to +125°C (-70°F to +257°F)

Thermal Conductivity (W/mK): 0.035 (0.245 Btu in/fl² hr °F) at 24°C (75°F)

Water Vapor Permeability: 0.03 Perm-inch ($4.38x10^{-14}$ Kg/Pa s m)

Water Absorption (%by weight): 5% by weight

Compression Set: Excellent

Flammability: Self-extinguishing

XII. STABILITY AND REACTIVITY

Conditions to avoid: N/A

Hazardous Decomposition Product: May generate Carbon Monoxide, Carbon Dioxide, Low molecular weight alcohol/aldehydes and acid.

Hazardous Polymerization: Will not occur.

XIII. TOXICOLOGICAL INFORMATION

No Data.

XIV. ECOLOGICAL INFORMATION

No Data.

XV. DISPOSAL CONSIDERATION

Waste material may be disposed of in an approved landfill or may be incinerated under conditions which meet federal, State and Local environmental regulation.

XVI. TRANSPORT INFORMATION

No Specific precautions required.

XVII. REGULATORY INFORMATION

No Data.

XVIII. OTHER INFORMATION

The information supplied herein is related to material specified and may not be valid if used in combination with other material or process. Further, the information contained here is believed to reliable and based on correct state of our knowledge. However no guarantees of any kind can be given as to its accuracy.